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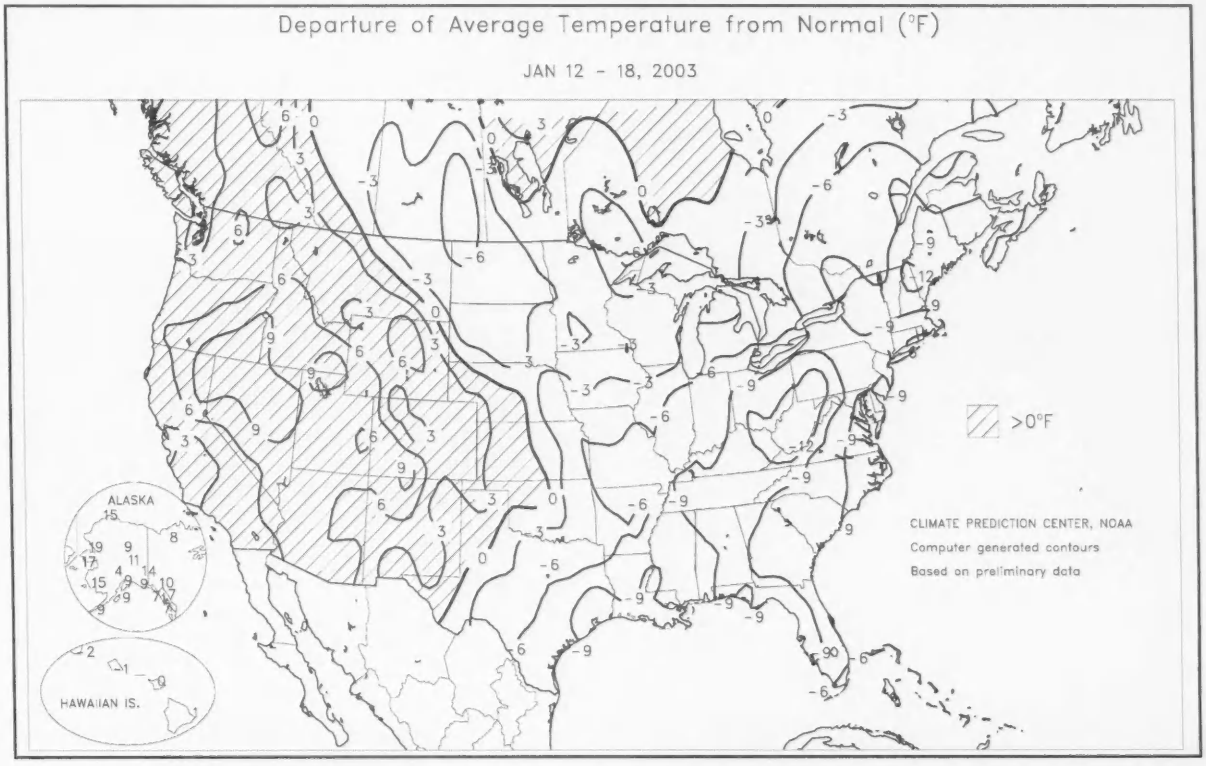
WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS

January 12 - 18, 2003

Highlights provided by USDA/WAOB

A cold, mostly dry weather pattern deepened across the **eastern half of the Nation**. By week's end, frosts and freezes affected areas as far south as **Louisiana's sugarcane areas**, where last year's crop was mostly harvested, and the **northern part of Florida's citrus belt**. In **central and interior southern Florida**, temperatures near or slightly below the freezing mark (32°F) on the mornings of January 18, 19, and 20 were not low enough to cause significant harm to citrus, but necessitated the use of protective measures for some other winter crops. Weekly temperatures averaged as much as 12°F below normal in **Florida** and ranged from 8 to 16°F below normal from the

(Continued on page 3)

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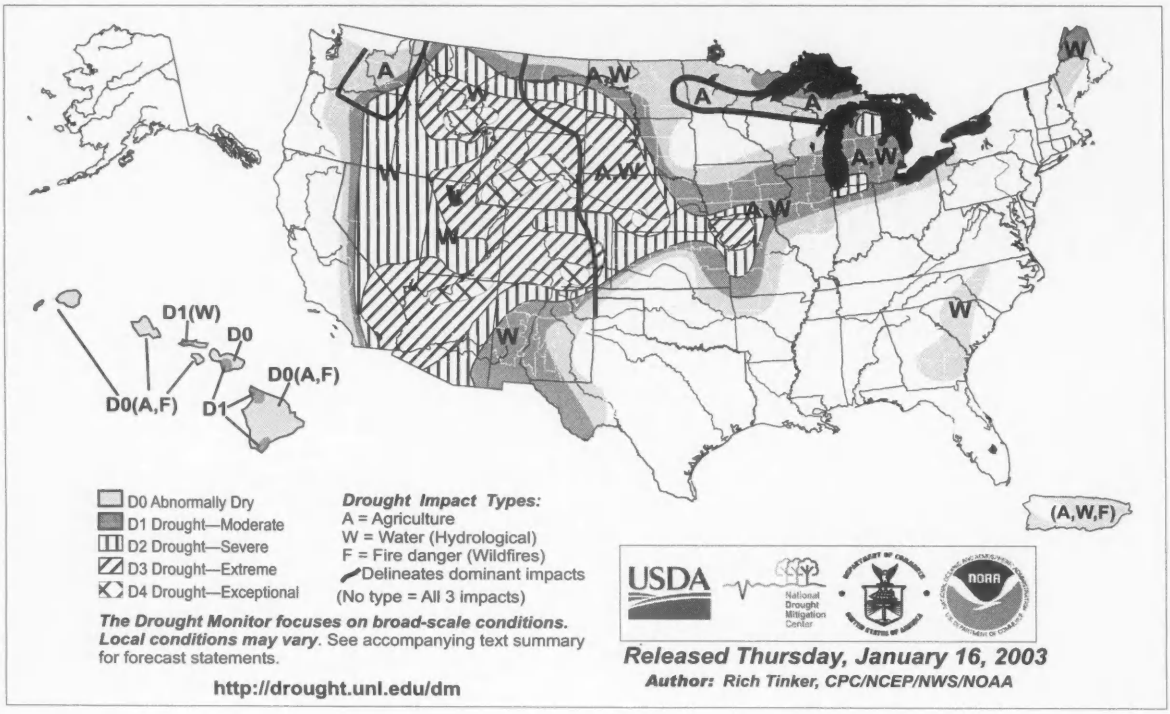
U.S. Drought Monitor

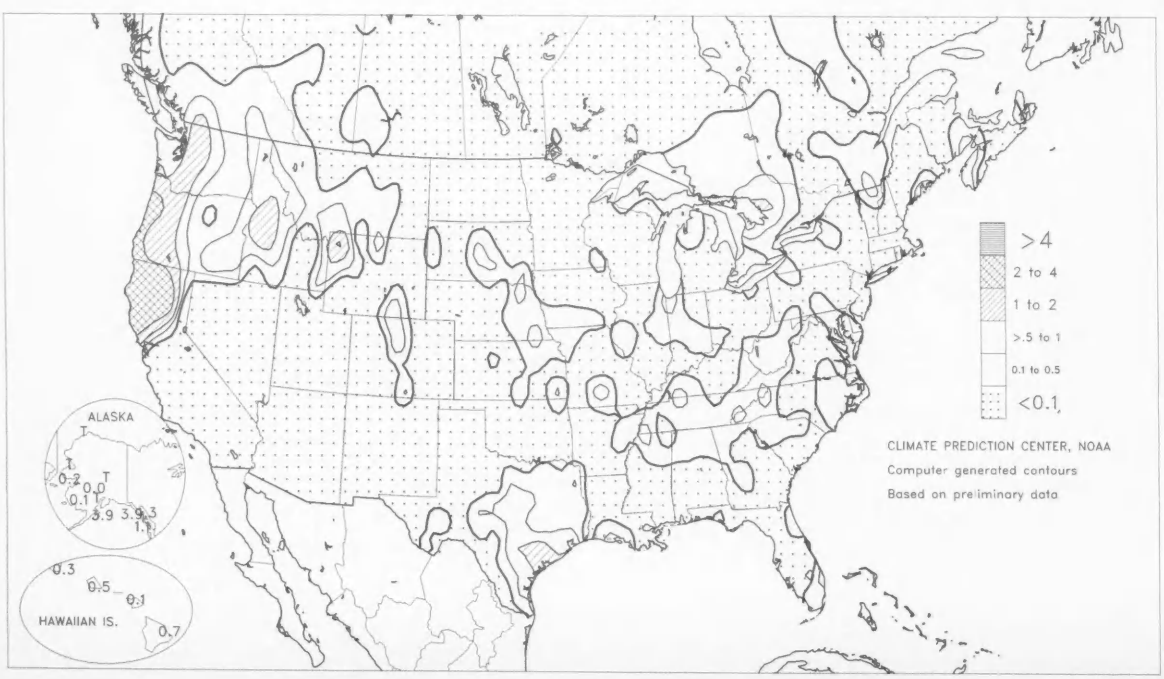
January 14, 2003
Valid 7 a.m. EST



Released Thursday, January 16, 2003
Author: Rich Tinker, CPC/NCEP/NWS/NOAA

Total Precipitation (Inches)

JAN 12 - 18, 2003

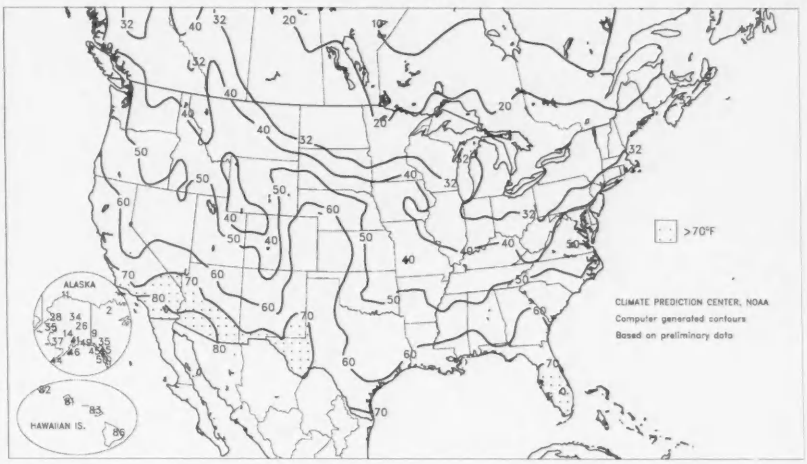


(Continued from front cover)

Ohio Valley into northern New England. Although cold weather limited evaporation from still-soggy **Southern** fields, the region benefited from a second consecutive week of mostly dry weather. Meanwhile in the **Midwest**, mostly dry conditions and frozen fields continued to favor off-season activities, but cold weather maintained stress on livestock. Temperatures as low as -20°F were noted across the **western Corn Belt**. On the **Plains**, light snow from **Montana to eastern Kansas** provided winter wheat with some protection from temperatures as low as -20°F. Although mild weather (readings up to 6°F above normal) continued on the drought-affected **central High Plains**, the wheat crop remained exposed to potential weather extremes. Meanwhile, soil moisture was adequate in **northern California** and parts of the **Northwest**, but mild (temperatures up to 12°F above normal), unfavorably dry conditions persisted elsewhere in the **West**. Drought effects from the **Southwest to the Rockies** included meager mountain snow packs, severely stressed rangelands, and below-normal reservoir levels.

Extreme Maximum Temperature (°F)

JAN 12 - 18, 2003



Precipitation diminished across the **West Coast States** early in the week, although **Redding, CA** (1.49 inches), collected a daily-record rainfall on January 12. Mild, mostly dry weather prevailed in the **West** thereafter, resulting in more than two dozen daily-record highs. On January 13, downtown **Sacramento, CA** (65°F), registered a record high for the date, while **Wells, NV** (57 and 55°F), posted their first of two consecutive daily records. Later in the week, **El Cajon, CA** (84°F on January 16 and 83°F on January 17), also tallied consecutive record highs.

Farther east, beneficial precipitation developed across portions of the **northern and central Plains**. **Bozeman, MT**, measured 0.71 inch on January 14, breaking their daily precipitation record for January (previously, 0.56 inch on January 7, 1962). A day later, snowfall in **South Dakota** included 10.0 inches in **Pierre** and 5.5 inches in **Kennebec**. On January 16, precipitation (melted snow) totaled 0.03 inch in **St. Joseph, MO**, **Olathe, KS**, and downtown **Kansas City, MO**, ending the locations' spells without measurable precipitation at 62 days (November 15 - January 15).

Snow also overspread the **interior South** on January 16, resulting in a 7-inch snowfall in **Nashville, TN.** It was **Nashville's** fifth-greatest daily snowfall on record and highest daily total since 8.7 inches fell on March 19, 1996. Although **Indianapolis, IN**, received only 2 inches from the storm, their season-to-date snowfall (19.0 inches through January 16) was the highest since 21.1 inches during the same period in 1998-99. Farther east, 4.5 inches of snow blanketed **Richmond, VA**, on January 16-17.

In the storm's wake, the coldest air of the season swept into the **South** and **East**. In **New York**, **Binghamton's** longest spell on record without a temperature below 0°F (nearly 3 years from January 23, 2000 - January 16, 2002) ended with a low of -4°F on January 17. **Atlantic City, NJ** (4°F on January 18), experienced their lowest reading since a minimum of 4°F on January 22, 2000, while **Allentown, PA** (1°F on January 18), had their lowest temperature in almost 6 years (1°F on January 19, 1997). Elsewhere on Saturday, lows included -34°F in **Saranac Lake, NY**, and -32°F in **Allagash, ME.**

Although no daily-record lows were set in **Florida** due to competition from similarly timed severe cold outbreaks in 1977, 1985, and other years, light freezes were common as far south as central parts of the peninsula. For example, January 18-20 lows in **Ft. Pierce, FL**, were 35, 31, and 31°F. On the northern fringe of **Florida's winter crop areas** in **Lake County**, **Umatilla** measured January 18-20 lows of 27, 27, and 31°F. **Key West, FL**, recorded a high of 57°F on January 18, their lowest maximum temperature since the 1989 cold wave (54°F on December 25, 1989). Farther north, daily-record lows on January 18 included 14°F in **Augusta, GA**, 10°F in **Charlotte, NC**, and -14°F in **Elkins, WV.** In **Virginia**, **Richmond's** high temperature of 25°F on January 18 was their lowest since a maximum of 21°F on January 5, 1996. Meanwhile, cold air continued to pour across the **Midwest** at week's end, where **Indianapolis** (-2°F on January 19) recorded their lowest temperature since a minimum of -5°F on December 25, 2000.

A cold front crossed **Hawaii**, holding temperatures as much as 2°F below normal and producing scattered, locally heavy showers from **Kauai to Maui**. **Kokee, Kauai**, received 2.56 inches in a 24-hour period on January 14-15. Elsewhere on **Kauai**, **Lihue** posted a daily-record low of 54°F on January 16. The following day, records included 53°F in **Kahului, Maui**, and 57°F in **Honolulu, Oahu**. Meanwhile, weekly temperatures ranged from 10 to 20°F above normal across most of **western and northern Alaska**. **King Salmon, AK**, noted maximum temperatures of 40°F or higher on 14 consecutive days (January 8-21), including daily-record highs on January 10 (44°F) and 12 (45°F). Significant **Alaskan** precipitation was again confined to **southern portions of the State**, where January 1-20 totals included 11.81 inches (219 percent of normal) in **Kodiak** and 4.80 inches (152 percent) in **Juneau**. Despite the above-normal precipitation, **Juneau's** month-to-date snowfall totaled just 2.2 inches (12 percent of normal).

Weather Data for Mississippi and the Missouri Bootheel

Weather Data for the Week Ending January 18, 2003

Data provided by the Mississippi State Delta Research and Extension Center (DREC), the Southern Regional Climate Center (SRCC), and the University of Missouri.

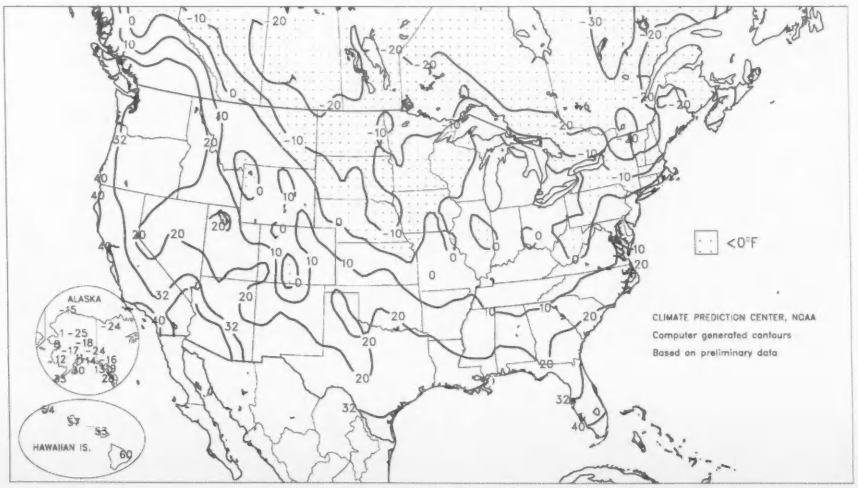
STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							4-INCH SOIL TEMP. °F		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS	BATESVILLE [X]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BELZONI [X]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CLARKSDALE [X]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CLEVELAND [X]	41	25	47	18	33	-9	0.02	-1.03	0.02	7.88	107%	0.96	42%	-	-	0	7	1	0
	GREENVILLE [X]	43	27	48	16	35	-7	0.00	-1.23	0.00	3.56	46%	0.00	0%	-	-	0	7	0	0
	GREENWOOD [X]	43	25	49	14	34	-9	0.15	-1.04	0.13	7.71	96%	0.16	6%	-	-	0	7	2	0
	INDIANOLA 1S	43	26	47	17	35	-	0.12	-	0.12	6.50	-	0.13	-	42	39	0	7	1	0
	INVERNESS 5E	43	27	47	18	35	-	0.11	-	0.11	7.38	-	0.12	-	43	39	0	7	1	0
	LYON	41	25	47	17	33	-	0.10	-	0.10	8.69	-	0.16	-	43	36	0	7	1	0
	MACON	45	26	55	17	35	-	0.18	-	0.18	6.37	-	0.27	-	44	39	0	7	1	0
	MOORHEAD [X]	42	27	47	18	34	-9	0.12	-1.14	0.12	2.77	32%	1.23	46%	-	-	0	7	1	0
	ONWARD	44	27	51	17	35	-	0.07	-	0.07	7.07	-	0.11	-	45	41	0	7	1	0
	PERTHSHIRE	42	25	46	15	33	-	0.09	-	0.09	11.7	-	-	-	43	35	0	7	1	0
	ROLLING FORK [X]	44	27	53	17	35	-8	0.13	-1.20	0.08	4.22	50%	0.53	19%	-	-	0	7	2	0
	SCOTT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SIDON	43	28	50	20	36	-	0.10	-	0.10	5.48	-	1.12	-	44	36	0	7	1	0
	STARKVILLE	44	25	52	13	34	-	0.17	-	0.17	5.61	-	-	-	44	36	0	7	1	0
	TUNICA [X]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TUNICA 1W	39	23	46	17	31	-	0.24	-	0.20	7.41	-	0.48	-	39	36	0	7	3	0
	VANCE	41	25	47	16	33	-	0.20	-	0.19	10.1	-	0.22	-	39	38	0	7	2	0
	VERONA	42	24	50	12	33	-	0.16	-	0.16	6.64	-	0.26	-	43	36	0	7	1	0
	VICKSBURG [X]	44	28	54	20	36	-11	0.02	-1.45	0.02	6.68	76%	0.33	11%	-	-	0	6	1	0
	YAZOO CITY [X]	43	27	52	20	35	-10	0.11	-1.36	0.11	6.16	66%	0.51	16%	-	-	0	7	1	0
	STONEVILLE [X]	43	26	47	17	34	-7	0.11	-1.15	0.10	6.57	81%	0.56	21%	45	38	0	7	2	0
MO	DELTA	32	14	44	-3	25	-7	0.01	-0.78	0.01	5.85	85%	0.16	9%	32	32	0	7	1	0
	STEELE	37	19	47	5	28	-5	0.09	-0.54	0.05	7.91	111%	0.43	23%	38	35	0	7	2	0
	GLENNONVILLE	35	19	45	8	27	-5	0.00	-0.62	0.00	6.41	105%	0.17	10%	35	34	0	7	0	0
	PORTAGEVILLE LF	36	18	46	6	27	-6	0.01	-0.64	0.01	5.92	86%	0.26	14%	38	34	0	7	1	0
	CLARKTON	35	16	47	1	26	-6	0.01	-0.61	0.01	6.23	102%	0.21	13%	35	33	0	7	1	0
	CARDWELL	36	19	46	5	28	-6	0.03	-0.63	0.02	6.90	102%	0.30	17%	40	36	0	7	2	0
	CHARLESTON	33	14	44	-1	25	-6	0.02	-0.61	0.02	6.20	102%	0.31	22%	36	34	0	7	1	0
	PORTAGEVILLE DC	35	18	47	6	27	-6	0.00	-0.65	0.00	6.12	89%	0.22	12%	*	*	0	7	0	0

Compiled by USDA/OCE/WAOB's Stoneville Field Office.
[X] Based on 1971-2000 normals.
- Sufficient data not available.

Weather and Crop Summary: Very cold weather moved into the Delta causing a hard freeze, so fields remained wet with slowed evaporation rates on the heavier textured soils. However, seedbed preparation and other fieldwork have progressed on the lighter textured fields due to minimal amounts of precipitation.

Extreme Minimum Temperature (°F)

JAN 12 - 18, 2003



National Weather Data for Selected Cities

Weather Data for the Week Ending January 18, 2003

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	44	23	55	14	34	-8	0.19	-1.08	0.19	7.71	101	0.48	15	79	32	0	7	1	0
	HUNTSVILLE	38	21	45	12	30	-9	0.10	-1.16	0.10	6.80	77	0.66	20	79	49	0	7	1	0
	MOBILE	53	30	65	24	41	-9	0.01	-1.32	0.01	9.01	114	0.03	1	69	38	0	6	1	0
	MONTGOMERY	48	26	56	17	37	-9	0.06	-1.06	0.06	5.49	71	0.33	12	88	51	0	6	1	0
AK	ANCHORAGE	31	19	41	11	25	9	0.04	-0.10	0.02	0.91	63	0.04	10	88	71	0	7	3	0
	BARROW	7	-4	11	-15	1	15	0.01	0.01	0.01	0.09	75	0.07	700	88	83	0	7	1	0
	FAIRBANKS	9	-8	26	-18	1	11	0.03	-0.08	0.02	0.56	53	0.17	53	84	79	0	7	2	0
	JUNEAU	37	28	45	19	33	8	1.29	0.22	0.89	9.88	119	4.02	140	98	91	0	4	5	1
	KODIAK	43	36	46	30	39	9	3.93	2.06	1.21	16.88	135	10.84	224	90	80	0	2	7	3
	NOME	31	14	35	8	23	17	0.21	0.02	0.07	1.42	94	0.44	88	92	80	0	7	4	0
AZ	FLAGSTAFF	52	21	57	18	37	7	0.00	-0.47	0.00	0.81	27	0.12	10	86	28	0	7	0	0
	PHOENIX	75	48	79	47	62	8	0.00	-0.18	0.00	0.60	43	0.44	90	64	34	0	0	0	0
	TUCSON	75	43	80	38	59	8	0.00	-0.21	0.00	0.66	41	0.03	5	58	33	0	0	0	0
	YUMA	76	51	80	49	64	6	0.00	-0.07	0.00	0.22	34	0.18	82	41	32	0	0	0	0
AR	FORT SMITH	42	24	54	14	33	-4	0.05	-0.47	0.05	5.56	117	0.32	24	88	49	0	7	1	0
	LITTLE ROCK	42	24	50	13	33	-7	0.04	-0.76	0.04	8.28	122	0.11	5	85	43	0	7	1	0
CA	BAKERSFIELD	57	41	66	38	49	2	0.06	-0.20	0.03	1.51	109	0.11	17	98	89	0	0	4	0
	FRESNO	58	43	67	38	50	4	0.05	-0.43	0.01	2.73	109	0.29	25	98	83	0	0	5	0
	LOS ANGELES	70	50	81	48	60	3	0.01	-0.65	0.01	1.82	54	0.01	1	80	61	0	0	1	0
	REDDING	63	45	75	38	54	9	3.29	1.80	1.48	19.60	236	4.85	133	96	89	0	0	4	3
	SACRAMENTO	57	45	64	37	51	5	0.16	-0.71	0.13	7.06	157	0.76	37	10	76	0	0	4	0
	SAN DIEGO	69	50	80	46	60	2	0.00	-0.52	0.00	1.97	77	0.00	0	78	61	0	0	0	0
	SAN FRANCISCO	59	48	62	43	54	5	0.09	-0.92	0.09	11.95	226	1.20	50	93	84	0	0	1	0
	STOCKTON	56	42	63	35	49	3	0.03	-0.58	0.01	5.62	172	0.59	41	10	97	0	0	3	0
CO	ALAMOSA	43	5	48	-1	24	10	0.00	-0.05	0.00	0.25	53	0.01	7	82	45	0	7	0	0
	CO SPRINGS	45	20	57	13	32	4	0.00	-0.05	0.00	0.08	14	0.00	0	77	29	0	7	0	0
	DENVER INTL	49	18	61	10	34	6	0.00	-0.05	0.00	0.08	17	0.03	19	75	30	0	7	0	0
	GRAND JUNCTION	44	24	47	19	34	8	0.00	-0.14	0.00	0.29	33	0.13	37	81	59	0	7	0	0
	PUEBLO	52	15	66	9	34	5	0.00	-0.07	0.00	0.30	51	0.01	5	75	54	0	7	0	0
CT	BRIDGEPORT	30	16	37	4	23	-7	0.00	-0.85	0.00	5.86	104	1.67	77	64	41	0	7	0	0
	HARTFORD	27	9	34	-5	18	-8	0.00	-0.88	0.00	5.66	97	1.88	84	72	47	0	7	0	0
DC	WASHINGTON	33	20	46	11	27	-8	0.03	-0.71	0.03	6.67	135	2.22	117	83	42	0	7	1	0
DE	WILMINGTON	31	17	41	6	24	-7	0.02	-0.76	0.02	5.74	106	1.54	76	78	39	0	7	1	0
FL	DAYTONA BEACH	59	40	71	32	50	-8	0.12	-0.60	0.11	10.00	222	0.39	22	90	46	0	1	2	0
	JACKSONVILLE	54	33	65	26	44	-9	0.02	-0.82	0.02	5.42	116	0.03	1	86	39	0	3	1	0
	KEY WEST	70	60	76	52	65	-5	0.02	-0.48	0.02	4.47	130	0.41	31	83	61	0	0	1	0
	MIAMI	72	53	77	45	63	-5	0.06	-0.33	0.06	3.81	120	0.42	42	88	53	0	0	1	0
	ORLANDO	62	42	72	35	52	-9	0.03	-0.52	0.02	11.97	325	0.59	43	89	47	0	0	2	0
	PENSACOLA	52	32	63	24	42	-10	0.07	-1.16	0.07	4.97	71	0.07	2	73	38	0	3	1	0
	TALLAHASSEE	54	29	63	19	42	-10	0.02	-1.22	0.02	6.70	93	0.09	3	75	37	0	5	1	0
	TAMPA	63	42	70	33	52	-9	0.03	-0.45	0.03	14.28	406	0.15	12	89	44	0	0	1	0
	WEST PALM	70	49	76	40	59	-7	0.90	0.02	0.54	3.76	72	1.16	56	97	60	0	0	3	1
GA	ATHENS	45	25	58	13	35	-7	0.14	-0.92	0.14	5.81	92	0.37	14	63	44	0	7	1	0
	ATLANTA	43	25	56	14	34	-8	0.11	-1.04	0.11	5.67	86	0.43	16	59	37	0	7	1	0
	AUGUSTA	49	24	59	14	36	-9	0.13	-0.89	0.13	4.48	79	0.23	9	80	37	0	7	1	0
	COLUMBUS	47	29	59	19	38	-8	0.17	-0.90	0.17	4.71	66	0.19	7	72	26	0	6	1	0
	MACON	49	26	60	16	37	-8	0.13	-1.00	0.13	5.66	84	0.27	10	73	26	0	6	1	0
	SAVANNAH	51	29	60	22	40	-9	0.00	-0.91	0.00	3.90	77	0.00	0	73	37	0	5	0	0
HI	HILO	81	62	86	60	72	1	0.69	-1.54	0.59	11.58	72	1.10	20	81	72	0	0	2	1
	HONOLULU	79	66	81	57	72	-1	0.48	-0.12	0.27	0.59	13	0.55	35	77	63	0	0	2	0
	KAHULUI	80	63	83	53	72	0	0.13	-0.72	0.08	1.15	22	0.60	28	80	69	0	0	3	0
	LIHUE	79	61	82	54	70	-2	0.26	-0.79	0.24	1.44	19	0.38	14	78	65	0	0	2	0
ID	BOISE	45	32	54	25	39	9	0.31	0.01	0.15	2.36	109	0.31	40	92	79	0	5	3	0
	LEWISTON	42	35	49	31	38	5	0.43	0.18	0.21	1.37	82	0.69	111	92	87	0	2	3	0
	POCATELLO	41	25	50	17	33	9	0.14	-0.11	0.05	0.66	38	0.23	36	95	81	0	6	4	0
IL	CHICAGO/O'HARE	25	10	32	4	18	-4	0.00	-0.37	0.00	2.00	58	0.07	7	74	50	0	7	0	0
	MOLINE	28	8	39	5	18	-3	0.00	-0.34	0.00	0.78	25	0.07	8	69	44	0	7	0	0
	PEORIA	27	9	36	2	18	-4	0.07	-0.24	0.07	2.34	72	0.14	16	82	51	0	7	1	0
	ROCKFORD	23	7	33	2	15	-4	0.02	-0.28	0.01	0.91	32	0.13	16	74	51	0	7	2	0
	SPRINGFIELD	27	8	37	-2	18	-7	0.12	-0.22	0.11	1.90	54	0.21	22	77	54	0	7	2	0
IN	EVANSVILLE	31	14	42	5	23	-8	0.02	-0.61	0.02	6.35	123	0.68	42	78	51	0	7	1	0
	FORT WAYNE	22	8	28	2	15	-8	0.02	-0.42	0.02	2.00	51	0.39	33	82	60	0	7	1	0
	INDIANAPOLIS	26	8	34	-1	17	-9	0.06	-0.49	0.05	3.52	79	0.49	34	88	56	0	7	2	0
	SOUTH BEND	23	10	31	4	17	-6	0.03	-0.47	0.03	2.10	48	0.29	22	81	64	0	7	1	0
IA	BURLINGTON	26	7	38	-1	17	-6	0.15	-0.13	0.14	0.99	35	0.20	26	80	40	0	7	2	0
	CEDAR RAPIDS	25	3	41	-2	14	-4	0.00	-0.22	0.00	0.29	14	0.02	4	76	33	0	7	0	0
	DES MOINES	24	6	43	-3	15	-5	0.00	-0.22	0.00	0.01	1	0.01	2	69	52	0	7	0	0
	DUBUQUE	22	5	35	0	14	-3	0.00	-0.28	0.00	0.80	33	0.07	10	76	50	0	7	0	0
	SIOUX CITY	27	2	50	-14	14	-4	0.10	-0.03	0.07	0.28	28	0.16	46	73	57	0	7	3	0
	WATERLOO	26	4	44	0	15	-1	0.00	-0.17	0.00	0.32	21	0.00	0	73	51	0	7	0	0
KS	CONCORDIA	34	15	49	-1	24	-2	0.05	-0.10	0.05	0.17	13	0.05	12	76	50	0	7	1	0
	DODGE CITY	42	18	63	10	30	0	0.00	-0.13	0.00	0.64	56	0.01	3	78	39	0	7	0	0
	GOODLAND	45	17	65	7	31	4	0.00	-0.09	0.00	0.17	26	0.17	65	80	50	0	7	0	0
	TOPEKA	33	14	48	0	24	-3	0.08	-0.11	0.08	0.12	6	0.08	15	79	52	0	7	1	0

Based on 1971-2000 normals

*** Not Available

Weather Data for the Week Ending January 18, 2003

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	37	21	47	13	29	-1	0.12	-0.06	0.12	1.34	71	0.12	22	89	65	0	7	1	0
KY	JACKSON	30	15	42	9	22	-12	0.36	-0.41	0.27	5.56	88	1.27	62	84	43	0	7	4	0
	LEXINGTON	28	13	39	7	21	-11	0.05	-0.69	0.05	4.64	77	0.55	28	81	52	0	7	1	0
	LOUISVILLE	32	17	41	10	25	-8	0.02	-0.71	0.02	7.36	132	0.75	39	73	43	0	7	1	0
	PADUCAH	33	14	44	2	24	-8	0.18	-0.55	0.18	7.63	122	0.56	30	93	46	0	7	1	0
LA	BATON ROUGE	53	32	65	26	43	-7	0.00	-1.40	0.00	7.16	82	0.01	0	87	35	0	3	0	0
	LAKE CHARLES	51	33	65	25	42	-9	0.20	-1.10	0.20	9.75	125	0.26	8	92	48	0	3	1	0
	NEW ORLEANS	54	36	69	33	45	-7	0.02	-1.29	0.02	4.82	59	0.02	1	69	48	0	0	1	0
	SHREVEPORT	49	32	55	22	40	-6	0.06	-0.96	0.04	8.41	118	0.06	2	82	40	0	3	2	0
ME	CARIBOU	8	-9	15	-21	0	-9	0.06	-0.61	0.05	3.07	62	0.16	9	83	61	0	7	2	0
	PORTLAND	23	2	30	-10	13	-9	0.00	-0.93	0.00	5.05	76	0.52	22	78	42	0	7	0	0
MD	BALTIMORE	32	16	43	5	24	-8	0.05	-0.74	0.05	7.39	137	2.43	119	82	43	0	7	1	0
MA	BOSTON	28	15	37	2	22	-7	0.00	-0.88	0.00	6.92	116	1.61	72	63	39	0	7	0	0
	WORCESTER	23	8	30	-5	15	-8	0.00	-0.94	0.00	6.20	100	1.89	71	77	46	0	7	0	0
MI	ALPENA	22	9	27	2	16	-2	0.03	-0.36	0.02	0.63	22	0.11	11	85	59	0	7	2	0
	GRAND RAPIDS	23	11	33	6	17	-5	0.00	-0.44	0.00	2.08	54	0.11	10	88	65	0	7	0	0
	HOUGHTON LAKE	21	8	28	0	15	-3	0.00	-0.36	0.00	0.46	17	0.05	5	84	68	0	7	0	0
	LANSING	23	9	29	4	16	-5	0.00	-0.34	0.00	0.94	31	0.15	17	83	57	0	7	0	0
	MUSKEGON	27	13	36	3	20	-3	0.01	-0.49	0.01	0.99	25	0.12	9	81	67	0	7	1	0
	TRAVERSE CITY	24	12	33	6	18	-3	0.03	-0.66	0.03	0.42	10	0.16	9	88	60	0	7	1	0
MN	DULUTH	14	-6	20	-9	4	-4	0.00	-0.25	0.00	0.83	55	0.00	0	76	53	0	7	0	0
	INT'L FALLS	10	-10	23	-15	0	-2	0.00	-0.19	0.00	0.28	25	0.00	0	77	50	0	7	0	0
	MINNEAPOLIS	19	1	33	-2	10	-3	0.00	-0.22	0.00	0.23	15	0.03	5	70	53	0	7	0	0
	ROCHESTER	16	-2	40	-8	7	-4	0.00	-0.21	0.00	0.56	37	0.01	2	80	65	0	7	0	0
	ST. CLOUD	19	-4	30	-8	7	-1	0.00	-0.17	0.00	0.22	20	0.00	0	79	44	0	7	0	0
MS	JACKSON	48	26	56	17	37	-8	0.01	-1.29	0.01	6.35	74	0.05	2	81	39	0	6	1	0
	MERIDIAN	48	25	59	14	37	-9	0.04	-1.31	0.04	7.97	92	0.06	2	73	55	0	7	1	0
	TUPELO	42	21	51	10	32	-8	0.21	-0.94	0.21	7.45	81	0.33	11	76	46	0	7	1	0
MO	COLUMBIA	31	13	41	0	22	-6	0.05	-0.31	0.05	2.64	78	0.55	59	83	47	0	7	1	0
	KANSAS CITY	31	13	45	0	22	-5	0.04	-0.21	0.03	0.07	3	0.04	6	80	47	0	7	2	0
	SAINT LOUIS	30	17	39	10	24	-5	0.05	-0.42	0.03	2.66	65	0.65	54	69	46	0	7	2	0
	SPRINGFIELD	32	12	37	-7	22	-9	0.11	-0.34	0.11	3.07	71	0.20	17	81	61	0	7	1	0
MT	BILLINGS	37	18	48	13	28	4	0.18	0.00	0.13	0.42	37	0.18	39	76	56	0	7	2	0
	BUTTE	31	6	41	-8	19	1	0.20	0.09	0.16	0.36	44	0.21	75	93	65	0	7	2	0
	GLASGOW	17	-3	28	-13	7	-3	0.09	0.02	0.07	0.15	26	0.11	55	84	70	0	7	3	0
	GREAT FALLS	39	15	47	10	27	6	0.00	-0.15	0.00	0.36	33	0.01	2	80	46	0	7	0	0
	HAVRE	22	-2	34	-11	10	-4	0.16	0.06	0.13	0.26	33	0.18	67	87	76	0	7	2	0
	KALISPELL	32	21	37	11	26	5	0.11	-0.21	0.09	1.48	59	0.24	29	93	83	0	7	2	0
	MISSOULA	31	24	38	15	28	5	0.11	-0.12	0.11	0.81	46	0.18	29	95	87	0	7	1	0
NE	GRAND ISLAND	33	7	51	-9	20	-2	0.16	0.05	0.16	0.18	19	0.16	57	78	59	0	7	1	0
	LINCOLN	29	7	49	-12	18	-4	0.29	0.14	0.18	0.31	24	0.30	73	78	49	0	7	2	0
	NORFOLK	28	5	51	-13	17	-3	0.23	0.12	0.23	0.30	32	0.26	93	74	57	0	7	1	0
	NORTH PLATTE	41	8	63	-1	24	1	0.05	-0.03	0.05	0.05	8	0.05	24	87	49	0	7	1	0
	OMAHA	27	6	47	-8	16	-5	0.28	0.11	0.12	0.29	22	0.29	69	71	49	0	7	4	0
	SCOTTSBLUFF	46	13	61	1	29	5	0.00	-0.11	0.00	0.00	0	0.00	0	80	50	0	7	0	0
	VALENTINE	32	5	50	-11	18	-2	0.15	0.09	0.15	0.19	40	0.15	107	82	67	0	7	1	0
NV	ELY	51	20	54	15	35	10	0.00	-0.17	0.00	0.22	24	0.06	15	88	56	0	7	0	0
	LAS VEGAS	65	41	69	39	53	6	0.00	-0.11	0.00	0.10	15	0.02	7	56	37	0	0	0	0
	RENO	55	28	58	25	42	9	0.00	-0.22	0.00	2.28	161	0.08	15	83	65	0	6	0	0
	WINNEMUCCA	52	26	55	17	39	9	0.00	-0.18	0.00	0.68	53	0.29	60	90	72	0	5	0	0
NH	CONCORD	23	-8	29	-18	7	-13	0.09	-0.57	0.04	4.33	93	0.75	44	93	48	0	7	3	0
NJ	NEWARK	32	17	43	6	25	-6	0.07	-0.86	0.06	6.59	112	2.89	125	80	48	0	7	2	0
NM	ALBUQUERQUE	54	30	58	25	42	7	0.00	-0.10	0.00	0.35	45	0.00	0	60	24	0	6	0	0
NY	ALBANY	23	3	31	-12	13	-9	0.00	-0.55	0.00	5.31	130	1.33	94	86	53	0	7	0	0
	BINGHAMTON	19	5	25	-5	12	-10	0.00	-0.56	0.00	4.93	111	2.17	152	86	68	0	7	0	0
	BUFFALO	23	14	29	3	18	-6	0.09	-0.61	0.06	5.61	99	1.24	67	84	56	0	7	3	0
	ROCHESTER	23	11	30	1	17	-7	0.25	-0.27	0.15	5.28	129	1.50	111	83	61	0	7	5	0
	SYRACUSE	24	8	31	-4	16	-7	0.05	-0.53	0.03	4.04	88	1.21	81	81	56	0	7	3	0
NC	ASHEVILLE	37	17	53	7	27	-8	0.03	-0.89	0.03	6.91	122	0.49	22	75	47	0	7	1	0
	CHARLOTTE	42	21	53	10	32	-9	0.15	-0.76	0.15	5.60	103	0.64	28	72	26	0	7	1	0
	GREENSBORO	40	22	48	11	31	-6	0.20	-0.60	0.20	5.75	114	1.30	65	67	28	0	7	1	0
	HATTERAS	45	33	58	27	39	-7	0.57	-0.80	0.55	4.05	51	1.73	50	70	43	0	3	2	1
	RALEIGH	40	23	48	15	32	-7	0.10	-0.83	0.10	5.84	110	0.80	35	64	32	0	7	1	0
	WILMINGTON	47	25	55	19	36	-10	0.18	-0.86	0.12	3.61	57	1.08	42	94	40	0	7	2	0
ND	BISMARCK	17	-6	30	-12	6	-4	0.01	-0.07	0.01	0.35	54	0.04	19	79	63	0	7	1	0
	DICKINSON	18	-3	27	-11	8	-6	0.04	-0.02	0.03	0.40	82	0.05	33	89	60	0	7	2	0
	FARGO	11	-9	23	-16	1	-5	0.04	-0.13	0.04	0.87	88	0.04	10	78	60	0	7	1	0
	GRAND FORKS	13	-6	24	-8	3	-2	0.00	-0.14	0.00	0.32	36	0.00	0	80	53	0	7	0	0
	JAMESTOWN	12	-7	24	-12	2	-6	0.06	-0.08	0.06	0.37	49	0.13	41	84	64	0	7	1	0
	WILLISTON	13	-11	25	-21	1	-6	0.07	-0.04	0.04	0.74	87	0.11	39	93	77	0	7	2	0
OH	AKRON-CANTON	21	9	27	2	15	-10	0.12	-0.43	0.04	4.03	91	1.12	78	86	69	0	7	6	0
	CINCINNATI	26	10	37	-1	18	-11	0.36	-0.29	0.30	6.25	126	1.33	78	79	58	0	7	2	0
	CLEVELAND	23	12	27	4	17	-9	0.21	-0.34	0.08	4.86	107	1.15	81	92	69	0	7	5	0
	COLUMBUS	25	11	33	3	18	-10	0.08	-0.47	0.03	4.01	92	1.25	87	76	63	0	7	3	0
	DAYTON	22	8	32	1	15	-11	0.14	-0.44	0.08	3.99	87	0.76	50	83	62	0	7	3	0
	MANSFIELD	21	8	28	1	14	-10	0.00	-0.58	0.00	3.12	65	0.38	25	87	62	0	7	0	0

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Weather Data for the Week Ending January 18, 2003

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	24	12	28	2	18	-6	0.00	-0.41	0.00	2.99	80	0.31	28	79	54	0	7	0	0
	YOUNGSTOWN	20	10	27	2	15	-10	0.11	-0.41	0.07	3.84	89	0.93	69	85	64	0	7	4	0
OK	OKLAHOMA CITY	43	27	48	16	35	-1	0.02	-0.25	0.02	1.87	70	0.02	3	90	51	0	5	1	0
	TULSA	43	24	46	16	33	-3	0.04	-0.30	0.02	2.92	87	0.16	17	84	57	0	7	2	0
OR	ASTORIA	51	40	55	34	46	4	1.00	-1.18	0.71	17.40	109	4.64	83	89	83	0	0	4	1
	BURNS	36	28	43	24	32	8	0.32	0.07	0.14	2.39	121	0.42	63	97	92	0	7	3	0
	EUGENE	49	38	51	29	43	3	1.39	-0.33	1.01	15.14	119	3.09	71	99	94	0	2	3	1
	MEDFORD	51	38	59	31	44	5	0.78	0.23	0.39	8.28	192	1.08	76	10	82	0	1	3	0
	PENDLETON	41	35	48	32	38	5	0.24	-0.07	0.16	3.21	141	0.97	123	97	94	0	1	3	0
	PORTLAND	48	36	51	32	42	2	0.92	-0.21	0.64	10.65	123	2.66	91	95	84	0	1	3	1
	SALEM	50	37	54	29	43	3	1.04	-0.26	0.78	14.13	145	2.93	89	96	86	0	2	2	1
PA	ALLENTOWN	28	12	36	1	20	-7	0.04	-0.76	0.04	6.20	114	1.24	61	82	45	0	7	1	0
	ERIE	23	14	29	5	18	-9	0.05	-0.49	0.03	4.62	88	0.64	43	81	63	0	7	2	0
	MIDDLETOWN	29	16	38	7	22	-7	0.03	-0.58	0.03	6.80	141	2.20	140	84	43	0	7	1	0
	PHILADELPHIA	31	18	42	8	25	-7	0.03	-0.77	0.03	5.68	106	1.62	79	72	42	0	7	1	0
	PITTSBURGH	22	10	30	1	16	-11	0.05	-0.56	0.05	4.25	97	1.69	110	86	57	0	7	1	0
	WILKES-BARRE	23	10	29	-3	16	-10	0.01	-0.54	0.01	4.95	127	1.49	110	79	52	0	7	1	0
	WILLIAMSPORT	26	11	33	0	19	-6	0.04	-0.59	0.02	5.03	112	1.67	107	90	64	0	7	2	0
RI	PROVIDENCE	30	16	38	3	23	-6	0.03	-0.96	0.03	7.13	107	1.97	78	68	38	0	7	1	0
SC	BEAUFORT	49	33	56	26	41	-7	0.02	-0.92	0.02	3.87	71	0.07	3	78	32	0	4	1	0
	CHARLESTON	51	30	59	23	40	-8	0.02	-0.92	0.01	4.39	78	0.18	8	77	33	0	5	2	0
	COLUMBIA	48	25	58	16	37	-7	0.20	-0.87	0.20	4.41	73	0.24	9	78	27	0	7	1	0
	GREENVILLE	43	25	57	13	34	-7	0.10	-0.89	0.10	7.02	110	0.56	22	76	36	0	7	1	0
SD	ABERDEEN	21	-3	32	-11	9	-1	0.00	-0.11	0.00	0.32	48	0.02	7	75	57	0	7	0	0
	HURON	24	0	37	-9	12	-2	0.00	-0.11	0.00	0.43	67	0.04	16	81	46	0	7	0	0
	RAPID CITY	33	4	53	-4	19	-3	0.12	0.05	0.07	0.16	27	0.12	60	86	51	0	7	2	0
	SIOUX FALLS	23	1	41	-8	12	-2	0.01	-0.10	0.01	0.24	30	0.08	30	75	55	0	7	1	0
TN	BRISTOL	33	14	39	4	24	-10	0.24	-0.55	0.22	5.50	102	1.12	57	88	38	0	7	2	0
	CHATTANOOGA	39	20	53	11	30	-9	0.13	-1.10	0.13	7.38	94	0.65	21	76	45	0	7	1	0
	KNOXVILLE	36	18	49	5	27	-10	0.29	-0.75	0.27	6.37	89	1.02	38	75	41	0	7	2	0
	MEMPHIS	40	25	48	15	33	-6	0.29	-0.62	0.29	10.04	124	0.38	16	79	45	0	7	1	0
	NASHVILLE	34	18	47	1	26	-10	0.34	-0.55	0.34	6.58	96	0.75	32	86	43	0	7	1	0
TX	ABILENE	51	30	61	18	41	-2	0.18	-0.01	0.18	1.52	83	0.18	32	85	73	0	4	1	0
	AMARILLO	52	23	69	19	37	2	0.00	-0.13	0.00	1.10	111	0.00	0	82	39	0	7	0	0
	AUSTIN	51	31	58	19	41	-9	0.91	0.51	0.91	6.12	171	1.59	141	84	65	0	2	1	1
	BEAUMONT	51	34	64	28	43	-9	0.00	-1.32	0.00	8.21	95	0.00	0	91	49	0	2	0	0
	BROWNSVILLE	64	44	72	37	54	-5	0.21	-0.08	0.20	1.88	106	0.62	93	94	78	0	0	2	0
	CORPUS CHRISTI	56	39	62	31	48	-8	0.30	-0.03	0.30	3.82	145	0.63	72	90	63	0	1	1	0
	DEL RIO	55	39	59	26	47	-4	0.17	0.07	0.16	0.60	60	0.29	116	88	70	0	2	2	0
	EL PASO	61	32	71	26	46	1	0.00	-0.08	0.00	1.65	160	0.00	0	68	27	0	3	0	0
	FORT WORTH	48	30	58	23	39	-5	0.22	-0.18	0.22	4.35	117	0.22	19	91	53	0	5	1	0
	GALVESTON	52	39	63	34	46	-10	0.49	-0.45	0.49	4.16	71	0.50	21	93	58	0	0	1	0
	HOUSTON	50	35	58	28	43	-9	0.46	-0.37	0.46	6.32	109	0.65	31	90	58	0	2	1	0
	LUBBOCK	54	25	66	18	40	2	0.04	-0.04	0.04	1.61	179	0.04	17	87	53	0	6	1	0
	MIDLAND	52	30	64	21	41	-2	0.29	0.18	0.29	1.35	145	0.29	104	90	65	0	4	1	0
	SAN ANGELO	52	31	62	20	41	-4	0.33	0.18	0.33	1.71	127	0.33	80	88	68	0	4	1	0
	SAN ANTONIO	54	36	61	25	45	-5	0.60	0.24	0.59	3.44	119	0.92	98	92	54	0	2	2	1
	VICTORIA	54	36	61	27	45	-8	1.28	0.73	1.28	4.33	111	1.69	119	94	59	0	2	1	1
	WACO	48	33	59	25	40	-6	0.43	0.04	0.40	8.07	210	0.43	39	87	70	0	3	2	0
	WICHITA FALLS	45	28	51	21	37	-3	0.08	-0.14	0.08	1.97	85	0.08	12	90	67	0	4	1	0
UT	SALT LAKE CITY	47	27	52	24	37	8	0.00	-0.30	0.00	0.60	30	0.13	17	92	50	0	7	0	0
VT	BURLINGTON	18	-2	25	-18	8	-10	0.07	-0.43	0.05	2.23	64	0.93	74	84	56	0	7	3	0
VA	LYNCHBURG	35	15	48	2	25	-9	0.10	-0.70	0.10	5.19	99	1.14	56	71	34	0	7	1	0
	NORFOLK	37	25	48	16	31	-9	0.39	-0.51	0.36	5.24	99	1.07	48	86	48	0	7	2	0
	RICHMOND	36	19	49	8	27	-9	0.21	-0.60	0.21	5.09	98	1.63	78	88	47	0	7	1	0
	ROANOKE	35	19	46	8	27	-8	0.12	-0.60	0.12	5.14	111	1.24	69	49	37	0	7	1	0
	WASH/DULLES	32	14	46	3	23	-9	0.04	-0.65	0.04	6.12	126	2.51	142	79	45	0	7	1	0
WA	OLYMPIA	47	34	51	26	41	3	0.71	-0.99	0.39	10.78	88	3.38	79	10	96	0	2	4	0
	QUILLAYUTE	52	38	58	34	45	5	0.63	-2.42	0.43	21.51	96	6.79	87	93	84	0	0	6	0
	SEATTLE-TACOMA	48	37	50	32	43	2	0.90	-0.25	0.48	9.40	110	3.42	117	98	88	0	1	3	0
	SPOKANE	35	28	41	24	32	5	0.49	0.10	0.29	4.70	143	1.43	138	98	89	0	6	4	0
	YAKIMA	39	33	48	30	36	7	0.22	-0.03	0.20	4.30	209	0.80	118	92	85	0	4	3	0
WV	BECKLEY	27	9	35	-3	18	-12	0.08	-0.64	0.05	4.26	87	1.23	67	70	52	0	7	2	0
	CHARLESTON	29	13	41	4	21	-12	0.31	-0.41	0.13	4.25	83	1.30	71	93	51	0	7	4	0
	ELKINS	24	3	32	-14	13	-15	0.19	-0.58	0.13	4.00	74	1.54	79	90	53	0	7	3	0
	HUNTINGTON	30	13	41	4	21	-11	0.15	-0.57	0.08	4.13	79	1.02	55	86	54	0	7	2	0
WI	EAU CLAIRE	20	0	35	-5	10	-1	0.00	-0.22	0.00	0.67	42	0.02	4	76	39	0	7	0	0
	GREEN BAY	22	6	28	3	14	-1	0.00	-0.27	0.00	0.82	40	0.07	11	73	40	0	7	0	0
	LA CROSSE	21	3	38	-1	12	-4	0.01	-0.25	0.01	0.39	21	0.03	5	79	46	0	7	1	0
	MADISON	23	6	32	1	15	-2	0.00	-0.26	0.00	0.73	31	0.06	9	70	46	0	7	0	0
	MILWAUKEE	25	10	33	6	18	-2	0.00	-0.40	0.00	0.81	25	0.06	6	60	43	0	7	0	0
WY	CASPER	43	15	49	10	29	7	0.00	-0.11	0.00	0.27	30	0.07	25	79	52	0	7	0	0
	CHEYENNE	43	20	53	14	32	6	0.00	-0.08	0.00	0.12	18	0.00	0	73	45	0	7	0	0
	LANDER	33	13	45	8	23	3	0.10	-0.01	0.10	0.52	58	0.32	114	88	75	0	7	1	0
	SHERIDAN	41	16	52	13	29	8	0.00	-0.17	0.00	0.20	18	0.00	0	82	55	0	7	0	0

Based on 1971-2000 normals

*** Not Available

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

National Weather Data for Selected Cities

Weather Data for the Week Ending January 11, 2003 (Corrected)

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	54	32	69	23	43	1	0.09	-1.14	0.08	7.52	118	0.29	15	88	40	0	4	2	0
	HUNTSVILLE	50	30	63	24	40	1	0.36	-0.91	0.36	6.70	89	0.56	28	84	61	0	5	1	0
	MOBILE	62	37	71	31	49	-1	0.00	-1.24	0.00	9.00	137	0.02	1	83	41	0	2	0	0
	MONTGOMERY	59	31	72	25	45	-1	0.00	-1.06	0.00	5.43	82	0.27	16	97	46	0	4	0	0
AK	ANCHORAGE	24	12	33	0	18	2	0.00	-0.15	0.00	0.87	67	0.00	0	81	68	0	7	0	0
	BARROW	-14	-26	6	-43	-20	-7	0.00	0.00	0.00	0.08	67	0.06	600	79	77	0	7	0	0
	FAIRBANKS	2	-17	17	-39	-7	3	0.05	-0.08	0.03	0.53	56	0.14	67	80	74	0	7	2	0
	JUNEAU	37	27	45	18	32	6	1.53	0.40	0.97	8.59	119	2.73	152	96	86	0	4	3	1
	KODIAK	36	27	43	8	32	2	5.50	3.60	1.88	12.95	122	6.91	233	78	66	0	3	5	3
	NOME	12	-1	35	-27	6	0	0.16	-0.03	0.08	1.21	92	0.23	77	81	70	0	7	4	0
AZ	FLAGSTAFF	44	28	58	20	36	7	0.12	-0.32	0.05	0.81	32	0.12	17	95	55	0	7	4	0
	PHOENIX	70	51	77	47	60	7	0.44	0.25	0.41	0.60	49	0.44	142	73	53	0	0	3	0
	TUCSON	71	45	76	41	58	7	0.03	-0.20	0.03	0.66	47	0.03	8	77	51	0	0	1	0
	YUMA	73	52	78	49	63	6	0.18	0.10	0.03	0.22	39	0.18	129	72	52	0	0	3	0
AR	FORT SMITH	52	29	67	22	41	4	0.00	-0.52	0.00	5.51	131	0.27	33	86	41	0	6	0	0
	LITTLE ROCK	53	32	67	24	43	3	0.00	-0.81	0.00	8.24	138	0.07	5	78	40	0	4	0	0
CA	BAKERSFIELD	58	42	66	37	50	3	0.05	-0.19	0.01	1.45	128	0.05	14	97	85	0	0	5	0
	FRESNO	55	43	60	36	49	4	0.22	-0.22	0.21	2.68	133	0.24	35	97	88	0	0	2	0
	LOS ANGELES	70	55	83	50	62	5	0.00	-0.59	0.00	1.81	67	0.00	0	86	65	0	0	0	0
	REDDING	61	44	73	39	52	7	1.48	0.07	1.05	16.31	239	1.56	72	87	73	0	0	4	1
	SACRAMENTO	56	43	66	37	50	5	0.60	-0.18	0.37	6.90	190	0.60	51	10	75	0	0	5	0
	SAN DIEGO	70	53	82	50	62	5	0.00	-0.48	0.00	1.97	97	0.00	0	81	53	0	0	0	0
	SAN FRANCISCO	60	48	66	43	54	5	1.11	0.19	0.89	11.86	277	1.11	80	91	80	0	0	3	1
	STOCKTON	54	43	58	39	49	4	0.55	-0.01	0.27	5.59	210	0.56	67	10	96	0	0	6	0
CO	ALAMOSA	44	8	47	2	26	12	0.01	-0.05	0.01	0.25	60	0.01	11	88	55	0	7	1	0
	CO SPRINGS	47	22	70	13	35	7	0.00	-0.07	0.00	0.08	15	0.00	0	79	32	0	7	0	0
	DENVER INTL	47	23	68	10	35	7	0.00	-0.06	0.00	0.08	19	0.03	27	73	34	0	6	0	0
	GRAND JUNCTION	46	25	49	18	35	10	0.13	-0.01	0.13	0.29	39	0.13	59	87	65	0	6	1	0
	PUEBLO	51	19	73	9	35	6	0.01	-0.07	0.01	0.30	58	0.01	8	72	43	0	7	1	0
CT	BRIDGEPORT	37	27	49	23	32	2	0.16	-0.69	0.10	5.86	122	1.67	126	82	60	0	6	3	0
	HARTFORD	34	21	43	16	27	1	0.12	-0.75	0.07	5.66	114	1.88	139	83	70	0	7	2	0
DC	WASHINGTON	44	30	62	25	37	2	0.21	-0.53	0.20	6.64	157	2.19	187	77	47	0	5	2	0
DE	WILMINGTON	42	31	56	24	37	5	0.33	-0.47	0.33	5.72	123	1.52	122	76	48	0	4	1	0
FL	DAYTONA BEACH	65	42	74	34	54	-5	0.00	-0.69	0.00	9.88	261	0.27	25	93	42	0	0	0	0
	JACKSONVILLE	63	36	72	31	50	-3	0.00	-0.78	0.00	5.40	141	0.01	1	89	35	0	3	0	0
	KEY WEST	70	56	78	50	63	-7	0.01	-0.51	0.01	4.45	150	0.39	48	85	60	0	0	1	0
	MIAMI	74	54	79	49	64	-4	0.00	-0.39	0.00	3.75	134	0.36	59	94	55	0	0	0	0
	ORLANDO	66	40	75	32	53	-8	0.00	-0.52	0.00	11.94	383	0.56	69	94	46	0	1	0	0
	PENSACOLA	61	38	68	32	50	-2	0.00	-1.17	0.00	4.90	85	0.00	0	86	42	0	1	0	0
	TALLAHASSEE	64	32	70	23	48	-4	0.02	-1.19	0.02	6.68	112	0.07	4	89	41	0	3	1	0
	TAMPA	66	45	72	37	55	-6	0.08	-0.39	0.08	14.25	469	0.12	16	98	53	0	0	1	0
	WEST PALM	71	49	77	43	60	-6	0.00	-0.78	0.00	2.86	66	0.26	22	94	56	0	0	0	0
GA	ATHENS	56	34	67	27	45	3	0.10	-0.91	0.10	5.67	108	0.23	15	76	42	0	4	1	0
	ATLANTA	55	34	69	27	44	2	0.03	-1.03	0.02	5.56	102	0.32	20	72	44	0	2	2	0
	AUGUSTA	60	32	72	23	46	2	0.00	-0.97	0.00	4.35	94	0.10	7	78	36	0	4	0	0
	COLUMBUS	59	34	71	29	47	1	0.00	-1.06	0.00	4.54	75	0.02	1	81	30	0	4	0	0
	MACON	60	33	70	27	47	2	0.00	-1.08	0.00	5.53	99	0.14	8	78	31	0	3	0	0
	SAVANNAH	62	36	73	28	49	0	0.00	-0.88	0.00	3.90	94	0.00	0	83	41	0	2	0	0
HI	HILO	79	64	82	61	72	1	0.41	-1.70	0.41	10.89	79	0.41	13	68	59	0	0	1	0
	HONOLULU	79	63	81	59	71	-2	0.07	-0.55	0.04	0.11	3	0.07	7	78	63	0	0	2	0
	KAHULUI	80	61	82	55	71	-1	0.47	-0.38	0.47	1.02	23	0.47	35	78	66	0	0	1	0
	LIHUE	78	61	80	59	69	-3	0.12	-0.95	0.10	1.18	18	0.12	7	79	69	0	0	2	0
ID	BOISE	40	27	45	21	33	4	0.00	-0.30	0.00	2.05	110	0.00	0	92	80	0	7	0	0
	LEWISTON	41	29	49	25	35	2	0.01	-0.23	0.01	0.94	66	0.26	70	96	82	0	6	1	0
	POCATELLO	36	20	43	13	28	4	0.08	-0.17	0.05	0.52	35	0.09	23	92	80	0	7	2	0
IL	CHICAGO/O'HARE	37	24	54	8	31	9	0.04	-0.35	0.04	2.00	66	0.07	11	80	63	0	6	1	0
	MOLINE	40	21	65	6	31	10	0.01	-0.36	0.01	0.78	28	0.07	12	72	51	0	7	1	0
	PEORIA	39	23	57	7	31	9	0.00	-0.34	0.00	2.27	77	0.07	13	81	57	0	7	0	0
	ROCKFORD	36	20	53	5	28	9	0.02	-0.28	0.01	0.89	35	0.11	22	76	57	0	7	2	0
	SPRINGFIELD	39	24	58	10	32	7	0.00	-0.38	0.00	1.78	56	0.09	14	76	57	0	6	0	0
IN	EVANSVILLE	43	27	58	18	35	4	0.00	-0.63	0.00	6.33	139	0.66	66	80	58	0	5	0	0
	FORT WAYNE	34	21	45	10	27	3	0.19	-0.27	0.18	1.98	56	0.37	49	87	69	0	6	2	0
	INDIANAPOLIS	38	23	53	11	30	3	0.05	-0.50	0.05	3.46	89	0.43	49	90	68	0	6	1	0
	SOUTH BEND	33	22	44	10	28	4	0.08	-0.44	0.06	2.07	53	0.26	31	85	70	0	7	3	0
IA	BURLINGTON	40	22	65	7	31	8	0.00	-0.30	0.00	0.84	33	0.05	10	80	43	0	6	0	0
	CEDAR RAPIDS	39	18	64	2	28	10	0.00	-0.22	0.00	0.29	16	0.02	6	82	42	0	7	0	0
	DES MOINES	41	20	67	4	31	11	0.00	-0.22	0.00	0.01	1	0.01	3	70	51	0	6	0	0
	DUBUQUE	36	19	56	1	27	10	0.00	-0.28	0.00	0.80	38	0.07	16	78	56	0	7	0	0
	SIOUX CITY	40	17	64	-2	28	10	0.00	-0.14	0.00	0.18	20	0.06	27	80	54	0	7	0	0
	WATERLOO	40	19	60	4	30	14	0.00	-0.17	0.00	0.32	23	0.00	0	78	51	0	7	0	0
KS	CONCORDIA	46	23	72	15	35	9	0.00	-0.17	0.00	0.12	11	0.00	0	68	45	0	6	0	0
	DODGE CITY	50	23	71	13	37	7	0.00	-0.15	0.00	0.64	63	0.01	4	75	39	0	6	0	0
	GOODLAND	48	20	69	7	34	7	0.00	-0.11	0.00	0.17	30	0.17	100	77	50	0	7	0	0
	TOPEKA	49	23	74	14	36	9	0.00	-0.22	0.00	0.04	2	0.00	0	76	46	0	7	0	0

Based on 1971-2000 normals

*** Not Available

Weather Data for the Week Ending January 11, 2003 (Corrected)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	47	24	67	16	36	6	0.00	-0.22	0.00	1.22	71	0.00	0	84	55	0	7	0	0
KY	JACKSON	44	27	60	16	35	1	0.06	-0.74	0.03	5.20	94	0.91	72	77	44	0	5	2	0
	LEXINGTON	41	27	55	15	34	2	0.06	-0.72	0.04	4.59	87	0.50	40	81	57	0	5	2	0
	LOUISVILLE	44	29	57	18	37	4	0.00	-0.74	0.00	7.34	151	0.73	62	78	48	0	4	0	0
	PADUCAH	45	27	60	16	36	3	0.00	-0.72	0.00	7.45	135	0.38	33	86	49	0	5	0	0
LA	BATON ROUGE	62	37	70	32	50	0	0.01	-1.32	0.01	7.16	98	0.01	0	94	42	0	1	1	0
	LAKE CHARLES	63	40	70	34	52	1	0.04	-1.22	0.02	9.55	146	0.06	3	93	47	0	0	3	0
	NEW ORLEANS	62	42	73	36	52	0	0.00	-1.19	0.00	4.80	70	0.00	0	85	60	0	0	0	0
	SHREVEPORT	61	38	75	29	50	4	0.00	-1.00	0.00	8.35	136	0.00	0	76	35	0	1	0	0
ME	CARIBOU	16	1	26	-8	9	-1	0.02	-0.68	0.02	3.01	70	0.10	9	88	71	0	7	1	0
	PORTLAND	29	15	34	9	22	0	0.22	-0.72	0.09	5.05	88	0.52	35	87	63	0	7	5	0
MD	BALTIMORE	42	27	59	22	34	2	0.29	-0.51	0.24	7.34	160	2.38	190	75	58	0	7	2	0
MA	BOSTON	34	24	40	20	29	-1	0.15	-0.72	0.07	6.92	136	1.61	119	87	60	0	7	3	0
	WORCESTER	29	17	37	12	23	-1	0.30	-0.64	0.14	6.20	118	1.69	116	94	70	0	7	5	0
MI	ALPENA	31	16	42	5	24	5	0.08	-0.33	0.05	0.60	24	0.08	12	89	62	0	7	2	0
	GRAND RAPIDS	33	22	47	17	28	5	0.11	-0.33	0.08	2.08	61	0.11	16	93	70	0	6	2	0
	HOUGHTON LAKE	31	17	46	8	24	6	0.05	-0.31	0.02	0.46	20	0.05	9	85	66	0	7	3	0
	LANSING	33	18	46	2	25	3	0.06	-0.27	0.04	0.94	35	0.15	28	84	69	0	7	2	0
	MUSKEGON	35	25	45	17	30	6	0.11	-0.39	0.05	0.98	28	0.11	14	78	70	0	6	3	0
	TRAVERSE CITY	35	21	48	15	28	6	0.13	-0.53	0.08	0.39	11	0.13	13	93	58	0	7	4	0
MN	DULUTH	29	12	48	-3	21	13	0.00	-0.21	0.00	0.83	66	0.00	0	87	69	0	7	0	0
	INT'L FALLS	28	6	46	-9	17	15	0.00	-0.16	0.00	0.28	30	0.00	0	90	64	0	7	0	0
	MINNEAPOLIS	34	19	54	-1	26	13	0.03	-0.19	0.02	0.23	17	0.03	9	76	61	0	7	2	0
	ROCHESTER	33	17	52	-3	25	13	0.01	-0.18	0.01	0.56	43	0.01	3	82	66	0	7	1	0
	ST. CLOUD	33	16	54	-4	25	17	0.00	-0.16	0.00	0.22	24	0.00	0	84	54	0	7	0	0
MS	JACKSON	58	32	68	24	45	0	0.00	-1.27	0.00	6.34	87	0.04	2	89	39	0	5	0	0
	MERIDIAN	58	31	69	25	45	-1	0.01	-1.29	0.01	7.93	108	0.02	1	90	44	0	5	1	0
	TUPELO	52	32	63	24	42	2	0.04	-1.18	0.04	7.24	90	0.12	6	85	57	0	4	1	0
MO	COLUMBIA	41	24	64	12	33	5	0.01	-0.35	0.01	2.59	85	0.50	88	77	52	0	6	1	0
	KANSAS CITY	46	24	71	10	35	8	0.00	-0.25	0.00	0.03	1	0.00	0	73	37	0	6	0	0
	SAINT LOUIS	43	28	68	17	36	7	0.00	-0.47	0.00	2.61	73	0.60	81	77	57	0	5	0	0
	SPRINGFIELD	46	24	68	15	35	3	0.00	-0.44	0.00	2.96	76	0.09	13	82	51	0	6	0	0
MT	BILLINGS	46	22	59	6	34	10	0.00	-0.19	0.00	0.24	25	0.00	0	66	32	0	5	0	0
	BUTTE	32	3	40	-8	18	1	0.01	-0.10	0.01	0.16	23	0.01	6	87	53	0	7	1	0
	GLASGOW	36	14	50	-3	25	15	0.01	-0.07	0.01	0.06	12	0.02	15	79	69	0	7	1	0
	GREAT FALLS	44	21	61	1	32	10	0.01	-0.16	0.01	0.36	39	0.01	4	67	33	0	5	1	0
	HAVRE	40	16	58	-5	28	14	0.00	-0.11	0.00	0.10	15	0.02	12	74	59	0	7	0	0
	KALISPELL	29	18	36	2	24	3	0.02	-0.31	0.02	1.37	63	0.13	25	87	78	0	7	1	0
	MISSOULA	32	17	43	8	25	2	0.00	-0.25	0.00	0.70	45	0.07	18	87	76	0	7	0	0
NE	GRAND ISLAND	43	19	68	8	31	9	0.00	-0.11	0.00	0.02	2	0.00	0	77	48	0	7	0	0
	LINCOLN	45	17	70	4	31	9	0.00	-0.17	0.00	0.02	2	0.01	4	74	45	0	7	0	0
	NORFOLK	42	20	66	4	31	11	0.00	-0.11	0.00	0.07	9	0.03	18	75	48	0	7	0	0
	NORTH PLATTE	46	13	67	0	30	7	0.00	-0.08	0.00	0.00	0	0.00	0	90	37	0	7	0	0
	OMAHA	43	21	68	9	32	11	0.00	-0.17	0.00	0.01	1	0.01	4	73	49	0	7	0	0
	SCOTTSBLUFF	46	16	65	2	31	7	0.00	-0.11	0.00	0.00	0	0.00	0	69	43	0	7	0	0
	VALENTINE	43	14	64	-1	29	9	0.00	-0.06	0.00	0.04	10	0.00	0	83	55	0	7	0	0
NV	ELY	48	21	56	14	35	10	0.06	-0.10	0.04	0.22	30	0.06	25	86	61	0	7	2	0
	LAS VEGAS	64	46	71	41	55	9	0.02	-0.09	0.02	0.10	18	0.02	12	63	48	0	0	1	0
	RENO	50	29	56	23	40	7	0.08	-0.13	0.06	2.28	190	0.08	25	84	62	0	5	2	0
	WINNEMUCCA	49	24	55	15	37	8	0.29	0.10	0.17	0.68	61	0.29	97	88	73	0	5	3	0
NH	CONCORD	28	8	33	1	18	-2	0.59	-0.07	0.22	4.24	106	0.66	63	96	71	0	7	5	0
NJ	NEWARK	40	29	52	24	35	3	0.14	-0.76	0.09	6.52	131	2.82	203	82	61	0	6	4	0
NM	ALBUQUERQUE	52	32	56	28	42	7	0.00	-0.11	0.00	0.35	53	0.00	0	74	40	0	5	0	0
NY	ALBANY	29	16	38	9	22	-1	0.15	-0.40	0.04	5.31	150	1.33	153	93	71	0	7	5	0
	BINGHAMTON	28	18	36	10	23	1	0.17	-0.38	0.06	4.93	126	2.17	249	91	79	0	7	6	0
	BUFFALO	32	21	40	10	26	1	0.62	-0.11	0.21	5.52	112	1.15	100	88	68	0	7	5	0
	ROCHESTER	33	19	41	7	26	1	0.58	0.06	0.26	5.03	142	1.25	152	90	78	0	7	5	0
	SYRACUSE	33	22	41	12	28	5	0.38	-0.20	0.17	3.99	99	1.16	127	88	70	0	7	6	0
NC	ASHEVILLE	51	27	67	21	39	3	0.00	-0.87	0.00	6.88	145	0.46	34	82	57	0	6	0	0
	CHARLOTTE	55	31	69	21	43	2	0.00	-0.89	0.00	5.45	120	0.49	36	70	30	0	4	0	0
	GREENSBORO	54	32	70	24	43	5	0.00	-0.78	0.00	5.55	130	1.10	92	62	34	0	4	0	0
	HATTERAS	52	37	62	31	45	-1	0.06	-1.29	0.04	3.48	52	1.16	56	78	48	0	2	2	0
	RALEIGH	54	32	71	25	43	3	0.00	-0.88	0.00	5.74	131	0.70	52	67	40	0	4	0	0
	WILMINGTON	58	35	70	27	46	0	0.00	-1.00	0.00	3.43	64	0.90	58	84	41	0	3	0	0
ND	BISMARCK	34	16	50	-7	25	15	0.00	-0.08	0.00	0.34	60	0.03	23	73	61	0	7	0	0
	DICKINSON	34	16	49	-8	25	11	0.00	-0.06	0.00	0.36	84	0.01	11	84	53	0	6	0	0
	FARGO	26	11	40	-9	19	12	0.00	-0.17	0.00	0.83	100	0.00	0	86	71	0	7	0	0
	GRAND FORKS	28	13	43	-10	20	15	0.00	-0.14	0.00	0.32	42	0.00	0	87	65	0	6	0	0
	JAMESTOWN	26	11	41	-14	19	10	0.00	-0.12	0.00	0.31	49	0.07	37	89	70	0	6	0	0
	WILLISTON	29	10	42	-14	19	11	0.00	-0.11	0.00	0.67	91	0.04	24	87	74	0	7	0	0
OH	AKRON-CANTON	33	19	44	5	26	0	0.40	-0.16	0.28	3.91	101	1.00	112	89	75	0	6	3	0
	CINCINNATI	39	27	53	14	33	3	0.07	-0.59	0.06	5.89	136	0.97	92	81	63	0	5	2	0
	CLEVELAND	34	22	45	10	28	2	0.56	0.01	0.41	4.65	116	0.94	108	93	70	0	7	4	0
	COLUMBUS	36	23	48	14	30	1	0.52	-0.03	0.28	3.93	103	1.17	134	80	66	0	6	3	0
	DAYTON	36	23	48	13	29	3	0.14	-0.44	0.13	3.85	96	0.62	67	82	63	0	7	2	0
	MANSFIELD	33	19	44	6	26	1	0.10	-0.49	0.07	3.12	74	0.38	40	92	67	0	7	3	0

Based on 1971-2000 normals

*** Not Available

Weather Data for the Week Ending January 11, 2003 (Corrected)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	34	21	44	9	28	4	0.21	-0.22	0.17	2.99	90	0.31	45	85	69	0	5	3	0
	YOUNGSTOWN	33	21	43	9	27	2	0.29	-0.23	0.15	3.73	98	0.82	99	90	74	0	6	4	0
OK	OKLAHOMA CITY	52	29	68	23	40	4	0.00	-0.32	0.00	1.85	77	0.00	0	82	38	0	6	0	0
	TULSA	53	29	75	19	41	5	0.00	-0.36	0.00	2.88	96	0.12	21	85	53	0	6	0	0
OR	ASTORIA	54	39	63	36	46	4	0.69	-1.46	0.69	16.40	119	3.64	108	80	62	0	0	1	1
	BURNS	37	20	41	14	29	5	0.09	-0.17	0.05	2.07	120	0.10	24	94	85	0	7	3	0
	EUGENE	42	34	46	32	38	-1	0.23	-1.47	0.22	13.75	126	1.70	64	97	86	0	4	2	0
	MEDFORD	51	30	61	25	41	3	0.08	-0.47	0.06	7.50	199	0.30	34	96	71	0	5	2	0
	PENDLETON	36	31	50	30	33	0	0.03	-0.27	0.01	2.97	152	0.73	152	94	90	0	6	2	0
	PORTLAND	49	34	54	28	41	2	0.19	-0.94	0.19	9.73	130	1.74	97	81	66	0	2	1	0
	SALEM	48	30	55	24	39	-1	0.30	-0.98	0.29	13.09	154	1.89	94	92	86	0	4	2	0
PA	ALLENTOWN	37	25	48	21	31	4	0.14	-0.65	0.11	6.16	133	1.20	98	84	62	0	7	2	0
	ERIE	34	24	45	18	29	1	0.23	-0.36	0.13	4.57	97	0.59	61	90	74	0	6	3	0
	MIDDLETOWN	38	26	52	20	32	3	0.29	-0.32	0.21	6.77	162	2.17	228	87	55	0	7	2	0
	PHILADELPHIA	40	29	54	25	35	2	0.25	-0.55	0.24	5.65	124	1.59	128	76	54	0	6	2	0
	PITTSBURGH	35	23	48	11	29	1	0.19	-0.41	0.11	4.20	111	1.64	176	84	61	0	5	3	0
	WILKES-BARRE	34	24	42	15	29	2	0.17	-0.35	0.07	4.94	147	1.48	183	84	65	0	6	4	0
	WILLIAMSPORT	35	25	47	17	30	4	0.02	-0.57	0.01	4.99	129	1.63	175	88	70	0	6	2	0
RI	PROVIDENCE	36	23	47	17	30	1	0.13	-0.85	0.06	7.10	125	1.94	127	84	59	0	7	4	0
SC	BEAUFORT	61	39	72	30	50	1	0.00	-0.91	0.00	3.85	85	0.05	4	79	33	0	1	0	0
	CHARLESTON	62	37	73	27	49	1	0.00	-0.93	0.00	4.37	94	0.16	11	73	32	0	2	0	0
	COLUMBIA	59	35	71	26	47	3	0.00	-1.03	0.00	4.21	85	0.04	3	71	35	0	3	0	0
	GREENVILLE	56	34	69	26	45	4	0.00	-0.99	0.00	6.92	128	0.46	30	80	37	0	4	0	0
SD	ABERDEEN	32	13	52	-8	23	12	0.00	-0.11	0.00	0.32	58	0.02	12	81	68	0	7	0	0
	HURON	37	17	60	1	27	13	0.00	-0.09	0.00	0.43	81	0.04	29	83	47	0	7	0	0
	RAPID CITY	44	18	63	4	31	9	0.00	-0.08	0.00	0.04	8	0.00	0	74	30	0	7	0	0
	SIOUX FALLS	35	16	57	0	26	12	0.00	-0.11	0.00	0.23	34	0.07	44	77	59	0	7	0	0
TN	BRISTOL	44	26	59	19	35	1	0.20	-0.57	0.19	5.26	115	0.88	73	83	51	0	7	2	0
	CHATTANOOGA	52	31	65	23	41	2	0.07	-1.12	0.07	7.25	109	0.52	28	75	47	0	4	1	0
	KNOXVILLE	48	30	60	21	39	2	0.05	-1.00	0.05	6.08	99	0.73	45	75	49	0	6	1	0
	MEMPHIS	52	35	64	26	43	3	0.01	-0.93	0.01	9.75	136	0.09	6	72	46	0	4	1	0
	NASHVILLE	49	31	64	21	40	3	0.00	-0.91	0.00	6.24	105	0.41	29	77	45	0	4	0	0
TX	ABILENE	60	33	71	26	46	3	0.00	-0.23	0.00	1.34	82	0.00	0	79	41	0	4	0	0
	AMARILLO	55	26	71	20	41	6	0.00	-0.15	0.00	1.10	129	0.00	0	79	31	0	7	0	0
	AUSTIN	64	39	84	33	52	2	0.68	0.23	0.68	5.21	164	0.68	93	75	49	0	0	1	1
	BEAUMONT	65	42	74	36	54	2	0.00	-1.33	0.00	8.21	112	0.00	0	91	42	0	0	0	0
	BROWNSVILLE	72	54	78	49	63	4	0.39	0.14	0.36	1.67	112	0.41	108	96	60	0	0	4	0
	CORPUS CHRISTI	68	50	76	44	59	3	0.33	-0.02	0.33	3.52	153	0.33	60	88	61	0	0	1	0
	DEL RIO	64	43	79	35	54	3	0.12	0.03	0.10	0.43	48	0.12	80	75	52	0	0	2	0
	EL PASO	62	37	65	28	49	5	0.00	-0.10	0.00	1.65	176	0.00	0	74	41	0	1	0	0
	FORT WORTH	59	35	73	29	47	3	0.00	-0.46	0.00	4.13	124	0.00	0	79	35	0	1	0	0
	GALVESTON	64	49	73	44	57	1	0.01	-0.90	0.01	3.67	74	0.01	1	94	57	0	0	1	0
	HOUSTON	65	44	76	38	54	3	0.19	-0.64	0.19	5.86	117	0.19	15	90	54	0	0	1	0
	LUBBOCK	57	27	71	22	42	5	0.00	-0.08	0.00	1.57	191	0.00	0	81	44	0	7	0	0
	MIDLAND	59	33	70	28	46	3	0.00	-0.11	0.00	1.06	129	0.00	0	79	47	0	3	0	0
	SAN ANGELO	62	33	74	26	48	4	0.00	-0.16	0.00	1.38	115	0.00	0	75	48	0	3	0	0
	SAN ANTONIO	65	44	77	40	54	4	0.32	-0.05	0.32	2.84	111	0.32	54	84	42	0	0	1	0
	VICTORIA	67	45	76	40	56	3	0.41	-0.14	0.40	3.05	91	0.41	47	89	59	0	0	2	0
	WACO	62	39	78	31	50	4	0.00	-0.43	0.00	7.64	220	0.00	0	80	52	0	1	0	0
	WICHITA FALLS	56	30	72	23	43	3	0.00	-0.26	0.00	1.89	90	0.00	0	83	50	0	4	0	0
UT	SALT LAKE CITY	41	25	45	17	33	4	0.13	-0.17	0.06	0.60	36	0.13	28	99	76	0	7	3	0
VT	BURLINGTON	24	13	30	7	18	-1	0.18	-0.30	0.08	2.16	73	0.86	115	99	73	0	7	4	0
VA	LYNCHBURG	48	30	65	21	39	5	0.02	-0.77	0.02	5.09	114	1.04	85	56	38	0	4	1	0
	NORFOLK	51	36	67	29	44	4	0.32	-0.55	0.32	4.85	111	0.68	51	69	45	0	2	1	0
	RICHMOND	49	33	67	25	41	5	0.32	-0.50	0.32	4.88	111	1.42	111	70	48	0	4	1	0
	ROANOKE	48	30	64	23	39	3	0.07	-0.62	0.07	5.02	128	1.12	105	61	41	0	5	1	0
	WASH/DULLES	42	27	60	22	35	3	0.35	-0.34	0.32	6.08	147	2.47	229	70	56	0	7	2	0
WA	OLYMPIA	48	27	55	24	37	-1	0.16	-1.50	0.15	10.07	96	2.67	103	98	97	0	7	2	0
	QUILLAYUTE	54	34	60	30	44	4	0.64	-2.39	0.61	20.88	108	6.16	129	93	77	0	2	4	1
	SEATTLE-TACOMA	53	37	57	33	45	5	0.20	-0.93	0.20	8.50	115	2.52	142	81	65	0	0	1	0
	SPOKANE	36	24	40	18	30	3	0.07	-0.34	0.07	4.21	145	0.94	145	91	72	0	7	1	0
	YAKIMA	40	26	44	21	33	5	0.07	-0.20	0.07	4.08	225	0.58	135	90	81	0	7	1	0
WV	BECKLEY	38	22	53	14	30	-1	0.24	-0.48	0.19	4.18	99	1.15	103	83	66	0	6	2	0
	CHARLESTON	43	28	59	20	36	3	0.19	-0.51	0.11	3.94	89	0.99	90	86	52	0	5	3	0
	ELKINS	38	23	51	13	30	1	0.27	-0.49	0.16	3.81	82	1.35	113	83	56	0	5	3	0
	HUNTINGTON	43	28	57	19	36	3	0.08	-0.64	0.04	3.98	88	0.87	77	79	50	0	5	2	0
WI	EAU CLAIRE	34	18	53	1	26	14	0.00	-0.21	0.00	0.67	50	0.02	6	84	50	0	7	0	0
	GREEN BAY	33	19	49	6	26	10	0.07	-0.18	0.06	0.82	46	0.07	18	81	61	0	6	2	0
	LA CROSSE	37	20	56	2	28	12	0.01	-0.22	0.01	0.38	24	0.02	6	86	51	0	7	1	0
	MADISON	35	21	54	4	28	11	0.04	-0.21	0.04	0.73	35	0.06	15	73	60	0	7	1	0
	MILWAUKEE	36	24	54	8	30	9	0.04	-0.35	0.03	0.81	29	0.06	10	68	59	0	6	2	0
WY	CASPER	40	17	48	-1	28	6	0.07	-0.04	0.07	0.27	34	0.07	41	75	56	0	6	1	0
	CHEYENNE	44	21	64	8	32	6	0.00	-0.08	0.00	0.12	20	0.00	0	65	43	0	6	0	0
	LANDER	29	12	40	4	20	0	0.22	0.11	0.21	0.42	54	0.22	129	95	85	0	7	2	0
	SHERIDAN	47	15	67	2	31	10	0.00	-0.17	0.00	0.20	21	0.00	0	71	48	0	7	0	0

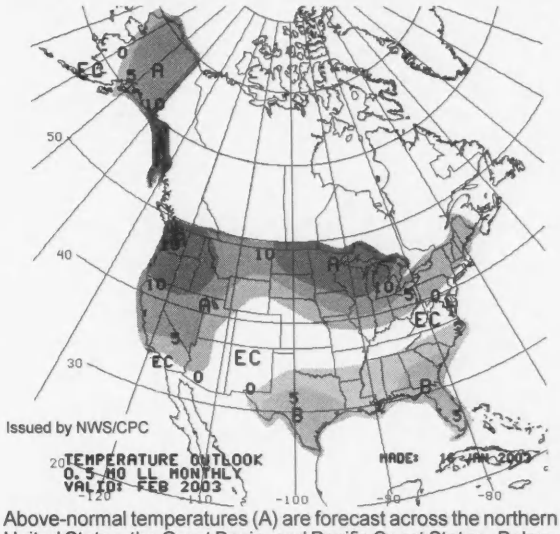
Based on 1971-2000 normals

*** Not Available

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

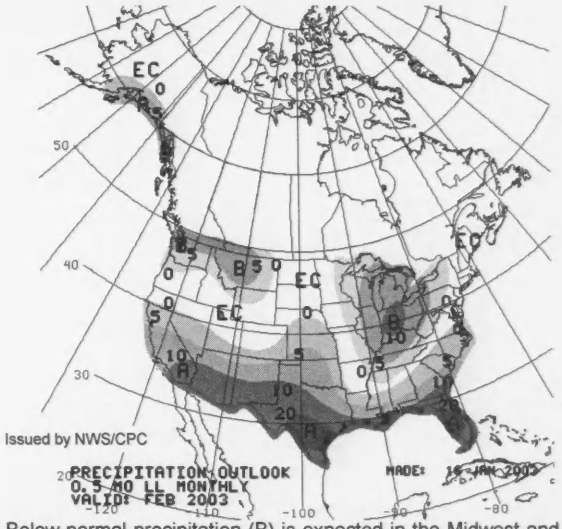
Monthly Temperature & Precipitation Outlook

Temperature Outlook: February 2003



Above-normal temperatures (A) are forecast across the northern United States, the Great Basin, and Pacific Coast States. Below-normal temperatures (B) are anticipated in the Gulf Coast and Southeastern States. For the rest of the Nation, there is and equal chance (EC) for above- or below-normal temperatures.

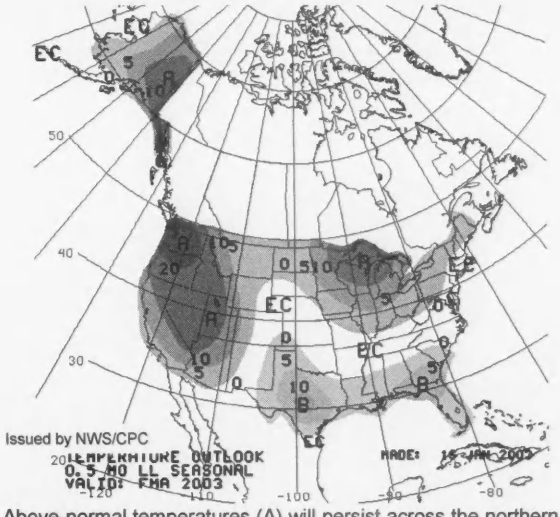
Precipitation Outlook: February 2003



Below-normal precipitation (B) is expected in the Midwest and portions of the northern Rockies and Pacific Northwest. Above-normal precipitation (A) is forecast across the southern third of the Nation, and portions of the central Plains and Southeast. Elsewhere, there is an equal chance (EC) for above- or below-normal precipitation.

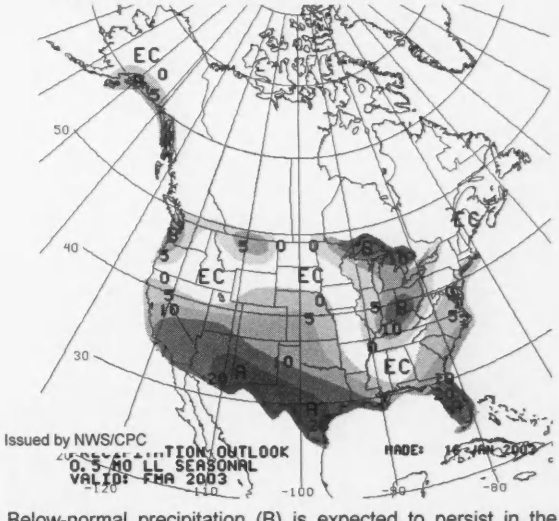
Seasonal Temperature & Precipitation Outlook

Temperature Outlook: February - April 2003



Above-normal temperatures (A) will persist across the northern United States, the Great Basin, and Pacific Coast States. Meanwhile, below-normal temperatures (B) will linger in the Gulf Coast and Southeastern States. For the rest of the Nation, there is and equal chance (EC) for above- or below-normal temperatures.

Precipitation Outlook: February - April 2003



Below-normal precipitation (B) is expected to persist in the Midwest and portions of the northern Rockies and Pacific Northwest. Above-normal precipitation (A) will prevail across the southern third of the Nation and the central Plains, Southeast, and Mid-Atlantic States. Elsewhere, there is an equal chance (EC) for above- or below-normal precipitation.

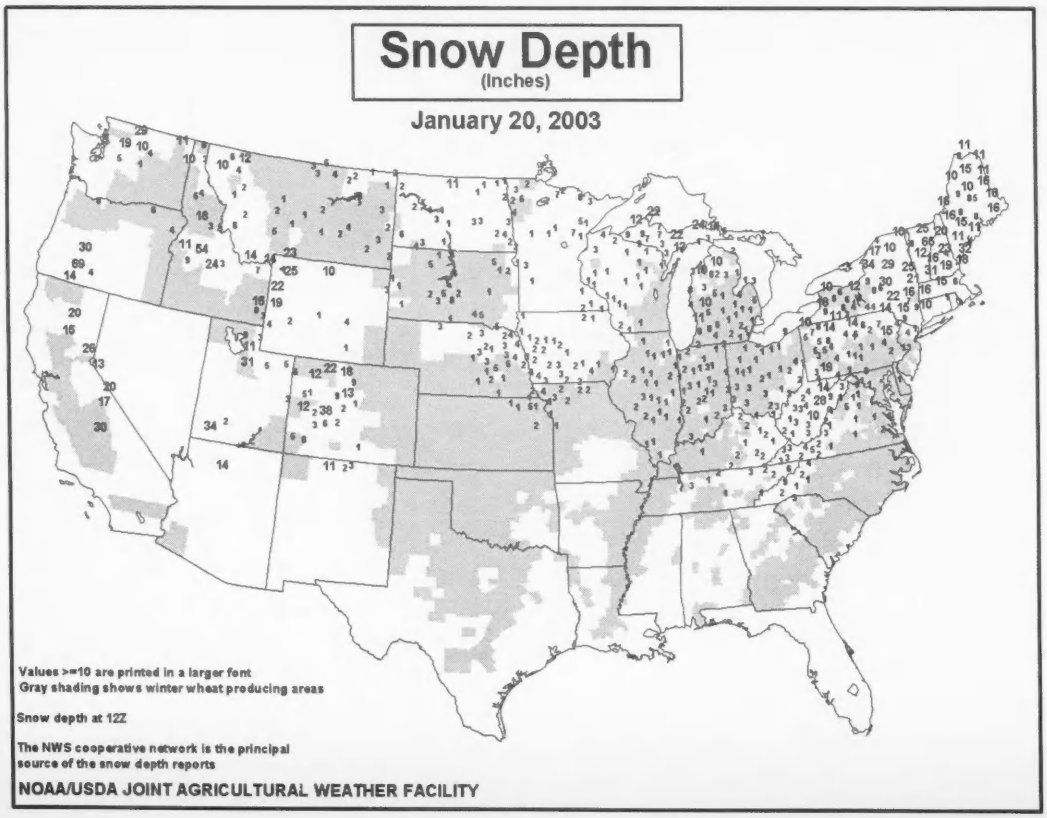
National Agricultural Summary

January 13 - 19, 2003

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Cold and mostly dry weather prevailed across the eastern half of the Nation during the week. Well-below-zero temperatures were noted in the northern Great Plains and Cornbelt, and temperatures at or slightly below freezing were recorded as far south as central Florida, along the Gulf Coast, and into the southern Great Plains. Even though temperatures were at or below freezing in Florida's citrus region, they did not drop low enough and remain below freezing long enough to significantly damage citrus trees or fruit. The cold weather will help hold most citrus trees in a semi-dormant condition and prevent any widespread immediate flushing of new growth. Some damage was seen on vegetable crops and new plantings of sugarcane in the Everglades region. Strawberry growers ran overhead sprinklers to form ice caps on plants as cold protection to save the plants and immature fruit during the colder nights. However, the cold weather provided beneficial chill hours for orchards throughout the Southeast. On the northern Great Plains, light snow provided some protection to the winter wheat crop from the cold weather. Fieldwork was active in the southern Great Plains where conditions allowed and producers braved the cold weather. Above-normal temperatures in the western half of the Nation further stressed moisture reserves in the central High Plains and Southwest. Field and orchard work was active in California, with showers causing slight delays in northern areas of the State.


Snow Depth
(Inches)
January 20, 2003
Values >=10 are printed in a larger font
Gray shading shows winter wheat producing areas
Snow depth at 12Z
The NWS cooperative network is the principal source of the snow depth reports
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

International Weather and Crop Summary

January 12 - 18, 2003

International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

FSU-WESTERN: A warming trend improved overwintering conditions for winter grains but melted some of the protective snow cover.

EUROPE: Warmer weather spread across Europe, easing cold stress on winter crops.

EASTERN ASIA: Warmer-than-normal weather reduced the risk of winterkill on the North China Plain, but frost lingered in the Yangtze Valley.

SOUTHEAST ASIA: Light showers reduced moisture supplies to rice nearing reproduction in Java, Indonesia.

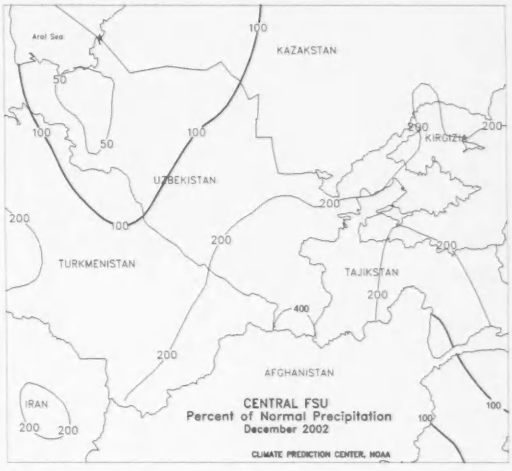
AUSTRALIA: Unfavorably hot, dry weather continued to maintain elevated crop water requirements for drought-stressed summer crops.

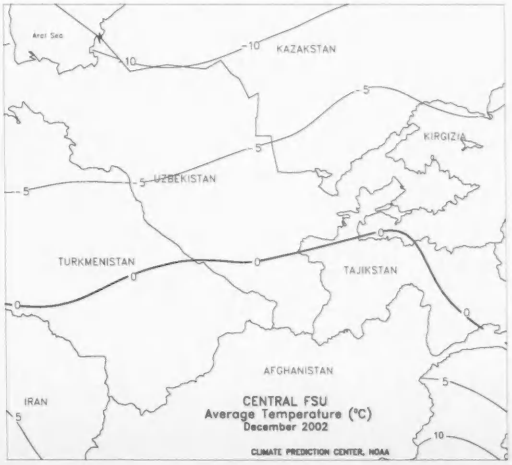
NORTHWESTERN AFRICA: Across Algeria and Tunisia, widespread rain continued to boost soil moisture for vegetative winter grains, while drier weather prevailed across Morocco.

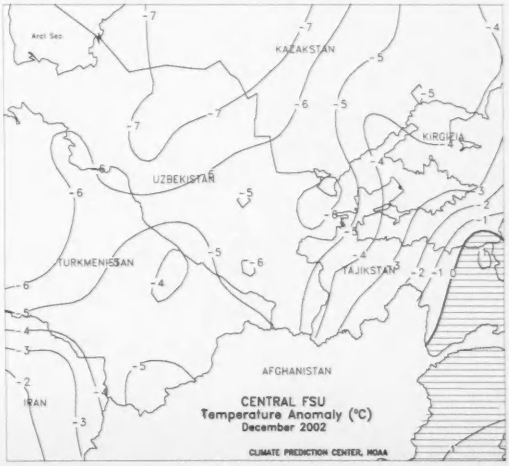
SOUTH AFRICA: Hot, dry weather followed last week's rainfall, enabling fieldwork to resume throughout the corn belt.

MIDDLE EAST: In northwestern Iran, bitterly cold weather stressed winter crops and possibly caused minor freeze damage in areas of patchy snow cover.

SOUTH AMERICA: Scattered, mostly light showers swept across Argentina and southern Brazil, as heavy rainfall continued over Brazil's northern summer crop areas.







FSU-WESTERN

Early in the week, bitterly cold weather remained over major winter wheat-producing areas in Ukraine and southern Russia. The lowest temperatures (-28 to -20 degrees C) were observed on January 13, and a deep snow cover provided adequate protection against the potential for widespread winterkill. During the remainder of the week, a strong westerly flow of air from Europe ushered in significantly warmer weather to most of the region. From January 16-17, maximum temperatures rose above freezing (1 to 6 degrees C) at most locations, with minimum temperatures rising above freezing in Ukraine, Belarus, the Baltics, and the Southern Region in Russia. The warmer weather melted some protective snow cover in these areas. Weekly temperatures averaged 1 to 4 degrees C above normal in western Ukraine, Belarus, and the Baltics, and near normal over the remainder of the region. A mixture of rain and snow fell in most areas, with the greatest amounts of precipitation (more than 10 mm of liquid equivalent) falling in both extreme northern and southern areas in Russia. In December, bitterly cold air spread south and west across most winter grain areas in Russia, Ukraine, Belarus, Moldova, and the Baltics early in the month. These areas continued to experience outbreaks of frigid arctic air during the remainder of the month, leading to the coldest December in at least the past 24 years. Monthly temperatures in December averaged 5 to 11 degrees C below normal in Ukraine, Russia, Belarus, and the Baltics. In most areas, light snow provided only a thin protective snow cover. In major winter wheat-producing areas of Ukraine and Russia, the lowest temperatures were observed during December 15-21. Snow cover in these areas was thin or patchy, leaving crops vulnerable to potential freeze damage, especially in eastern Ukraine and parts of the Southern Region in Russia, where temperatures fell to -20 degrees C or lower for 2 or more days. For additional information on snow cover and extreme minimum temperatures in eastern Ukraine, please see Figure 1 and 2 below. The full extent of damage to winter grains will not be apparent until crops begin breaking dormancy in the spring. At month's end, temperatures gradually moderated in Ukraine and the Southern Region in Russia, improving overwintering conditions for winter grains. Although severe cold (minimum temperatures ranging from -40 to -25 degrees C) prevailed from the Baltics and Belarus eastward across northern Russia, a storm system spread moderate to heavy snow over these areas, providing a fresh protective snow cover.

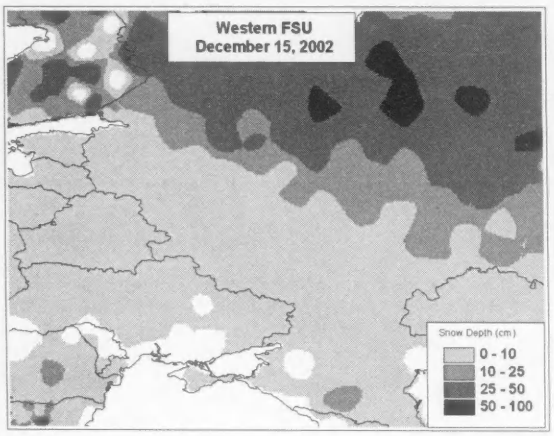


Figure 1: Snow Depth (cm) - valid on December 15, 20002

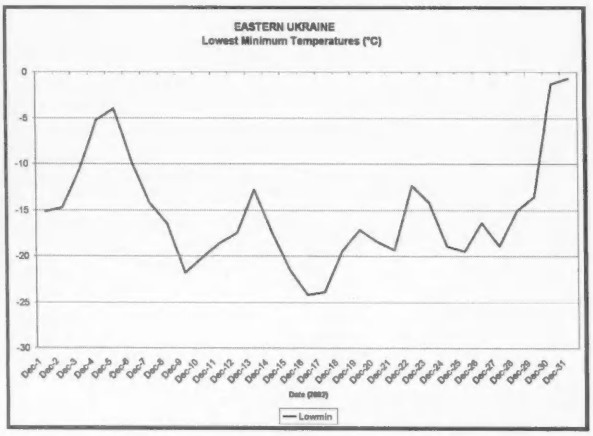
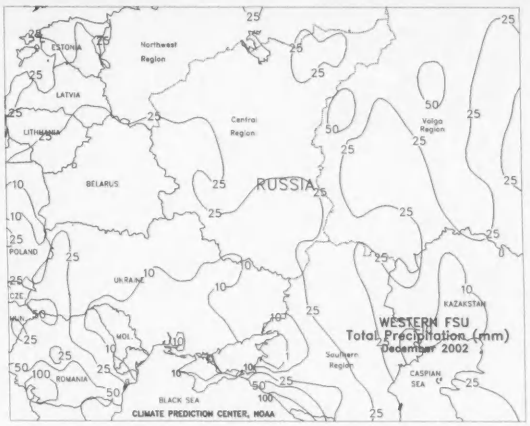
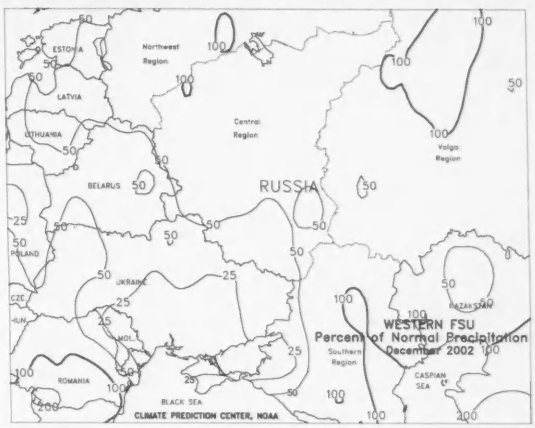
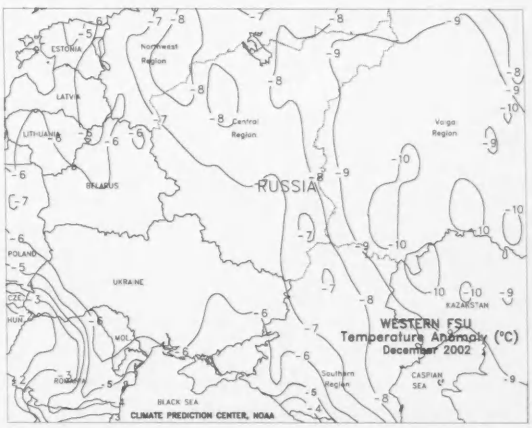


Figure2: Extreme Minimum Temperature (°C) - eastern Ukraine

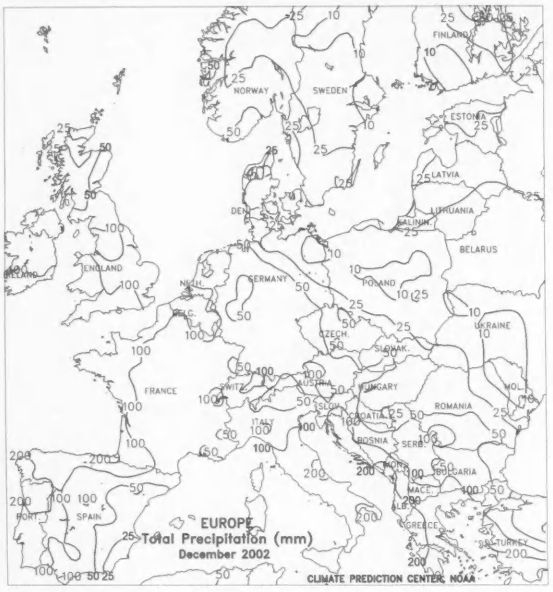


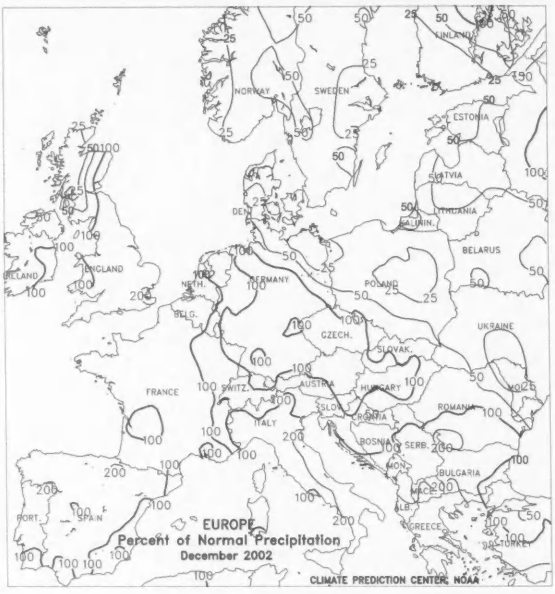




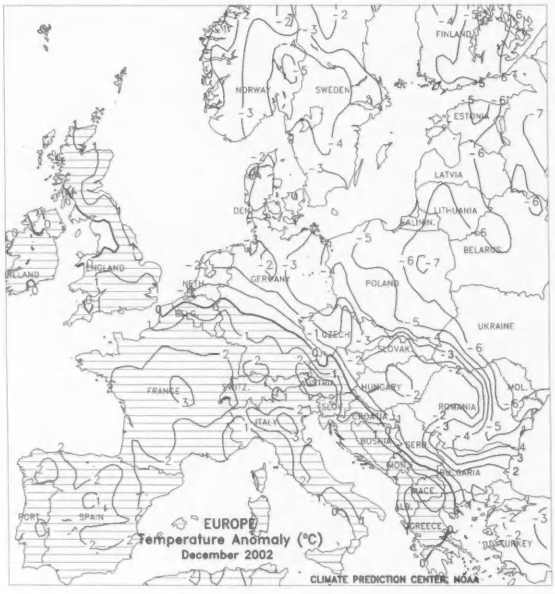
EUROPE

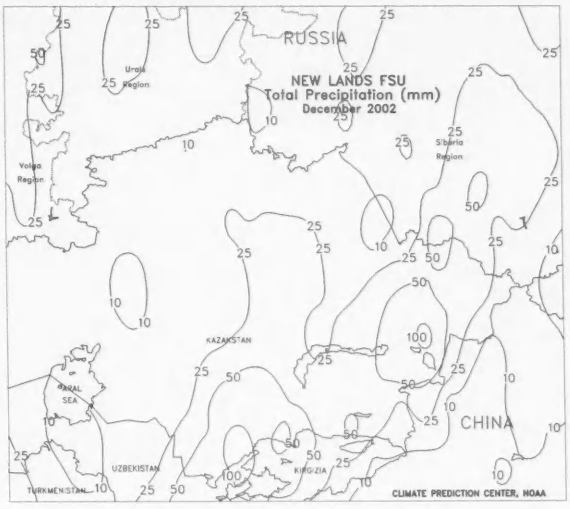
Milder weather improved overwintering conditions for dormant winter crops across Europe. Early in the week (January 12-13), the lowest temperatures ranged from -10 to -5 degrees C in central Spain, -15 to -8 degrees C from central France to central Germany, and -25 to -15 degrees C from extreme southeastern Germany and southern Poland into Serbia and central Romania. A sufficiently deep snow pack stretched from the eastern half of France into Germany and from Poland southward into Bulgaria and northern Greece, protecting winter crops from this early-week cold snap. In southeastern Spain, early-week minimum temperatures ranged from 0 to 2 degrees C, causing little or no damage to citrus. The cold weather was overall beneficial to citrus trees, because it helped prevent vulnerable new growth from forming during the cold season. By week's end, minimum temperatures rebounded to range from -5 to 2 degrees C at most lower elevations of Europe. The milder weather caused snow cover to begin receding from France, northern Germany, and northern Poland. Winter crops were dormant except for Portugal, southern Spain, Italy, and Greece, where crops were slowly growing. Temperatures averaged 2 to 4 degrees C above normal across the northern third of Europe, 2 to 4 degrees below normal across the rest of western and southern Europe, and 6 to 8 degrees C below normal in east-central Europe. Light to moderate rain and snow (5-25 mm of liquid equivalent) fell across France, Germany, and Poland as well as the southern Balkans and Greece. Seasonable rain (10-40 mm or more) fell across northern Portugal and southern Italy. Elsewhere across Europe, mostly dry weather prevailed. During December, near- to above-normal precipitation maintained adequate to abundant soil moisture and irrigation supplies for overwintering winter grains and oilseeds. Heavy rainfall during late December and early January caused local flooding in Portugal, England, northern France, and southern Germany. In eastern Europe, bitterly cold weather in areas without snow cover created the potential for isolated freeze damage to winter crops. Unseasonably warm weather provided later-than-normal vegetative growth in northern France and northern Italy.

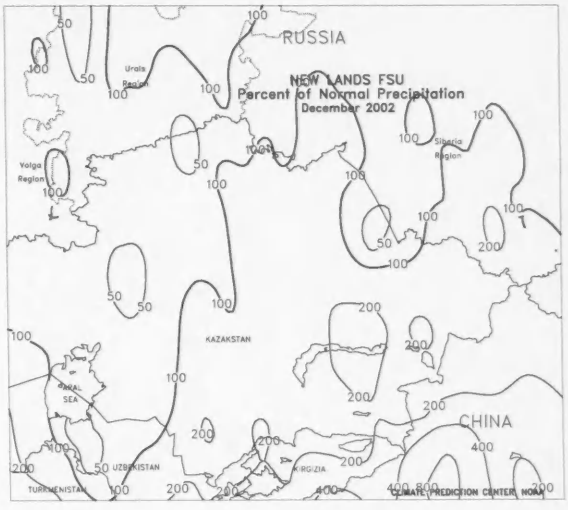

EUROPE
Total Precipitation (mm)
December 2002
CLIMATE PREDICTION CENTER, NOAA

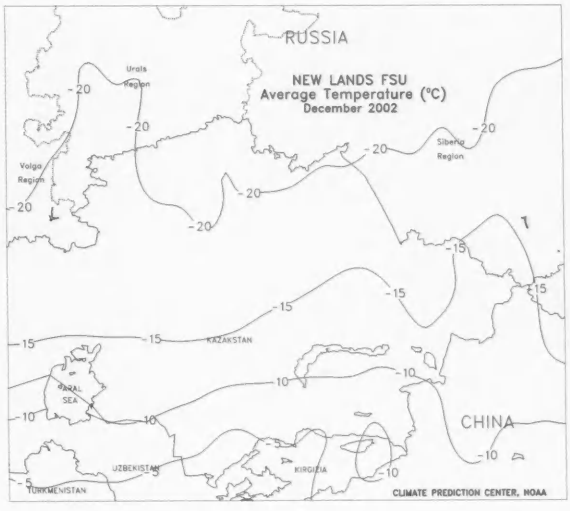

EUROPE
Percent of Normal Precipitation
December 2002
CLIMATE PREDICTION CENTER, NOAA

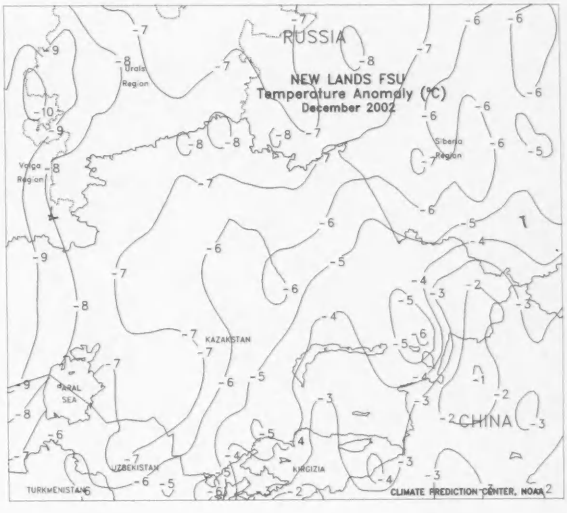
EUROPE
Average Temperature (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA


EUROPE
Temperature Anomaly (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA


RUSSIA
NEW LANDS FSU
Total Precipitation (mm)
December 2002
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

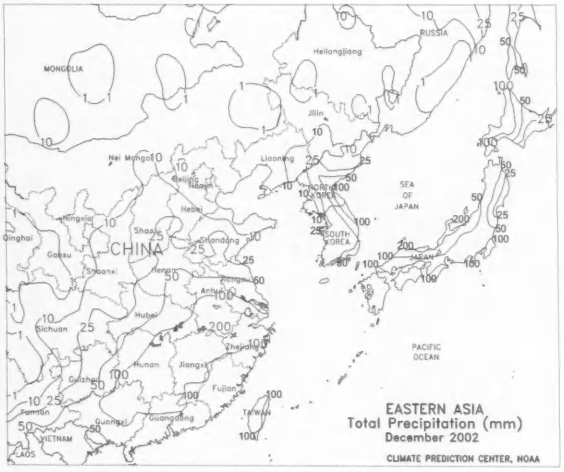

RUSSIA
NEW LANDS FSU
Percent of Normal Precipitation
December 2002
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

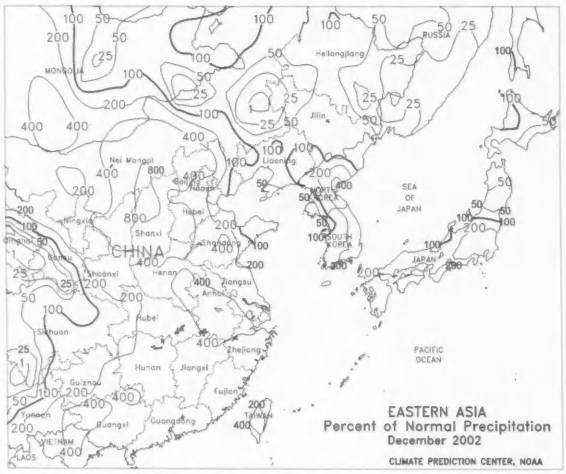

RUSSIA
NEW LANDS FSU
Average Temperature (°C)
December 2002
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

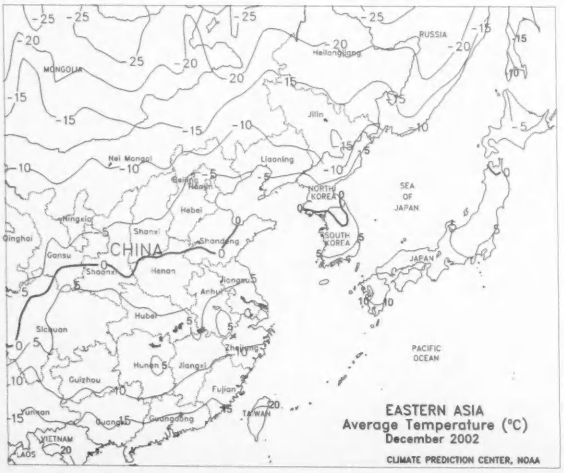

RUSSIA
NEW LANDS FSU
Temperature Anomaly (°C)
December 2002
Urals Region
Volga Region
Siberia Region
KAZAKSTAN
ARAL SEA
UZBEKISTAN
KIRGIZIA
TURKMENISTAN
CHINA
CLIMATE PREDICTION CENTER, NOAA

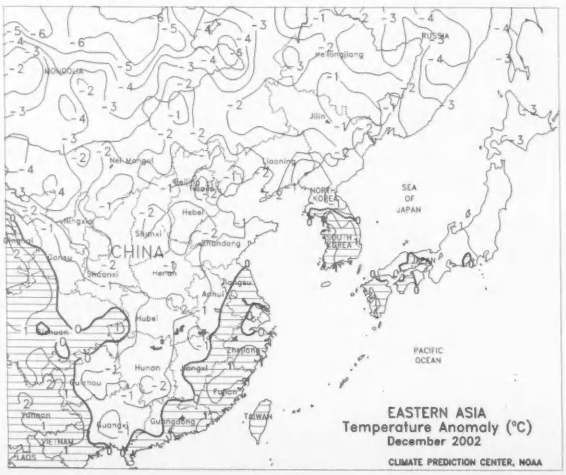
EASTERN ASIA

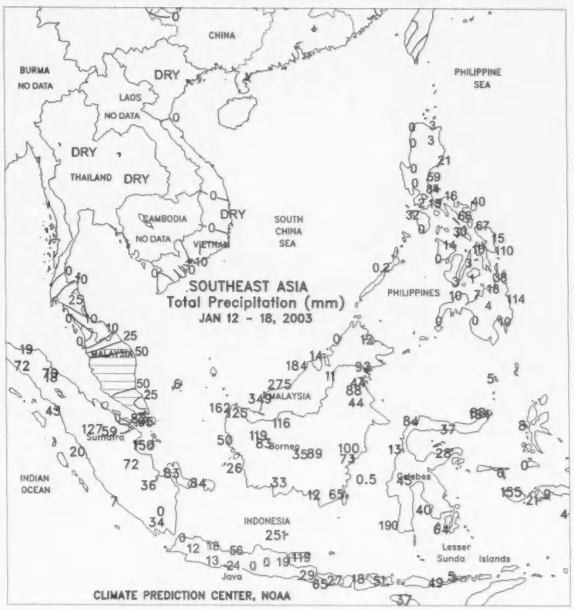
Dry, warmer-than-normal weather dominated China. On the North China Plain, lows below -10 degrees C were limited to the northernmost growing areas, reducing the risk of winterkill in dormant wheat. Most winter wheat areas lacked a protective snow cover. Farther south, the dryness aided fieldwork after last week's locally heavy rain, but frosty weather (lows of -2 to 2 degrees C) lingered in the Yangtze Valley, slowing sugarcane growth. Temperatures stayed above freezing, however, in the main production areas of the southern provinces (Yunnan to Fujian). Elsewhere, temperatures averaged 1 to 4 degrees C above normal across the Korean Peninsula and Japan, with significant precipitation (greater than 10 mm) generally confined to coastal areas bordering the Sea of Japan. Very low temperatures (lows below -15 degrees C) were common in northern Japan (Hokkaido) and North Korea, but snow cover protected dormant winter crops. During December, an unseasonably wet, mild pattern gripped much of central and southern China, increasing moisture for winter wheat establishment in southern growing areas and increasing irrigation reserves from the Yangtze Valley southward. However, the moisture was untimely for sugarcane fieldwork. Late-month arctic air (temperature of -15 degrees C or lower) overspread China's northern winter wheat areas, but snow cover offered some protection from the bitter cold. Much of Japan and the Korean Peninsula recorded above-normal December precipitation, increasing long-term moisture reserves and providing winter crops with protective layers of snow.





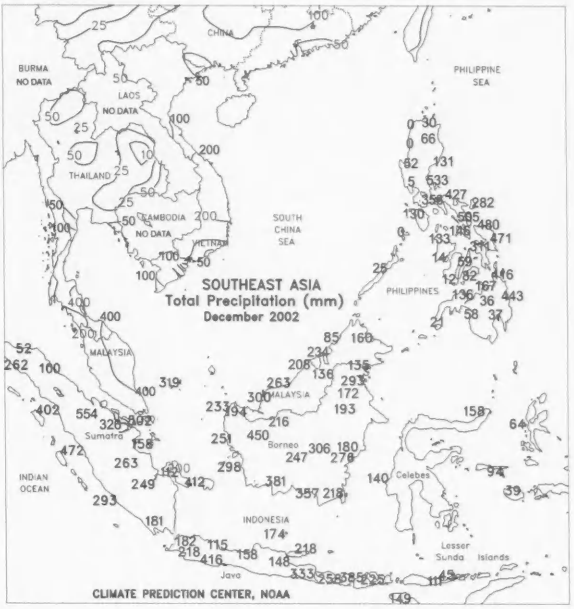


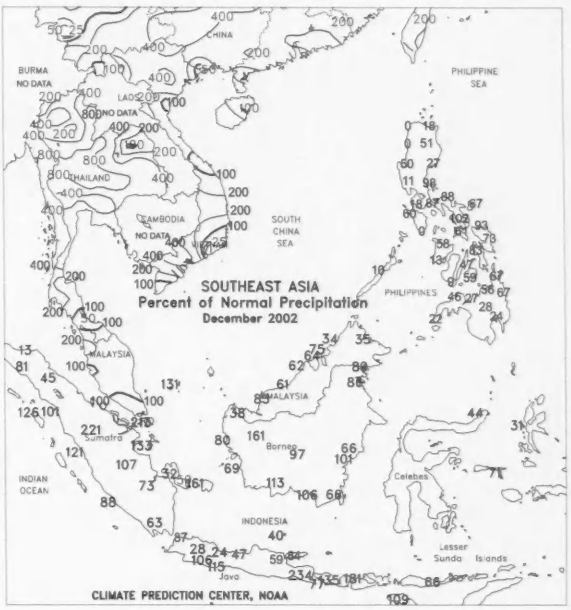


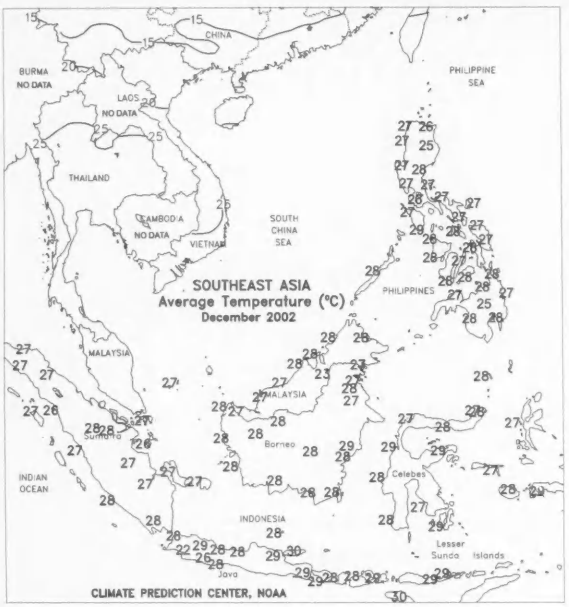


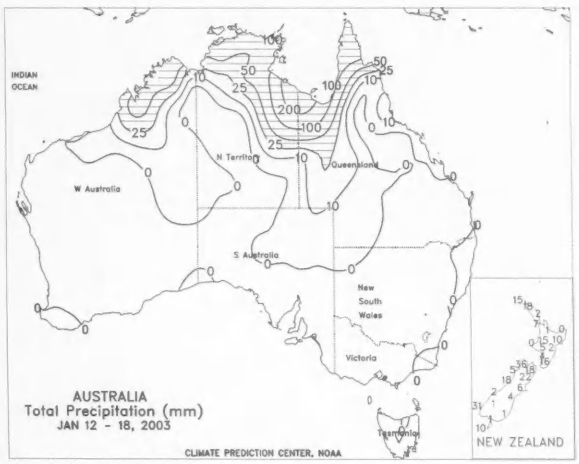
SOUTHEAST ASIA

Mostly scattered, light showers (10-25 mm) throughout Java, Indonesia, reduced moisture supplies for rice nearing reproduction. Reproduction is a moisture-sensitive phase for rice, and rainfall has been below normal in some northern growing areas. Mostly dry weather continued in the irrigated rice areas of the western Philippines. Seasonably dry weather prevailed in Indochina, while temperatures warmed in northern Vietnam, favoring vegetative winter-spring rice. Showers continued to boost moisture supplies for oil palm in peninsular Malaysia and Sumatra. In December, above-normal rainfall in Thailand slowed sugarcane and late main-season rice harvests. Above-normal showers in Vietnam boosted moisture supplies for vegetative winter-spring rice. In Java, Indonesia, below-normal rainfall lowered moisture supplies for main-season rice. Above-normal rainfall increased moisture supplies for oil palm in peninsular Malaysia and Sumatra.



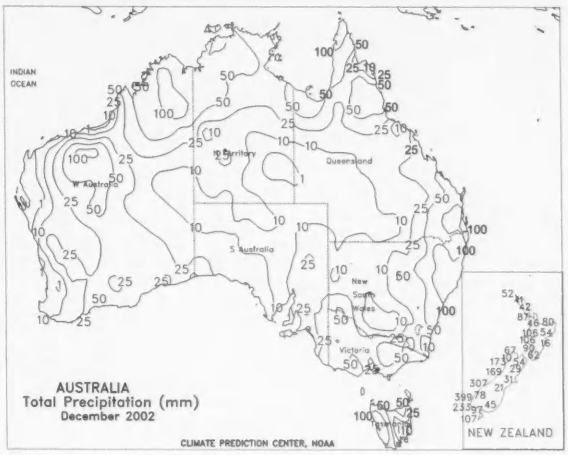


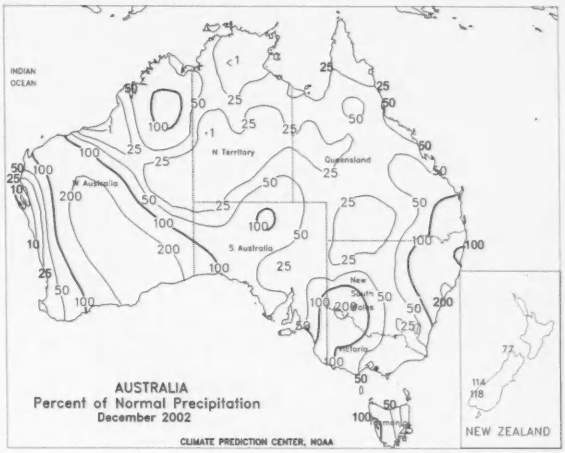


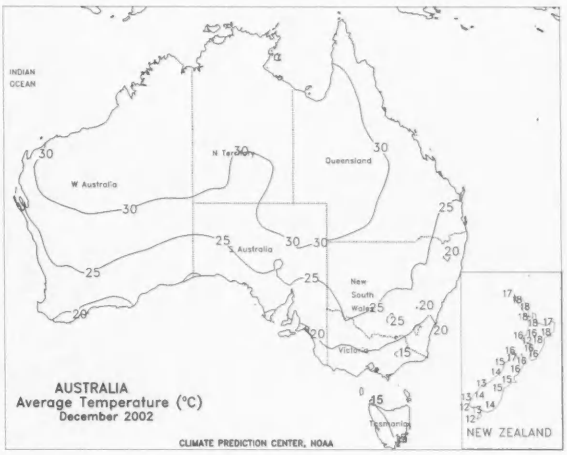


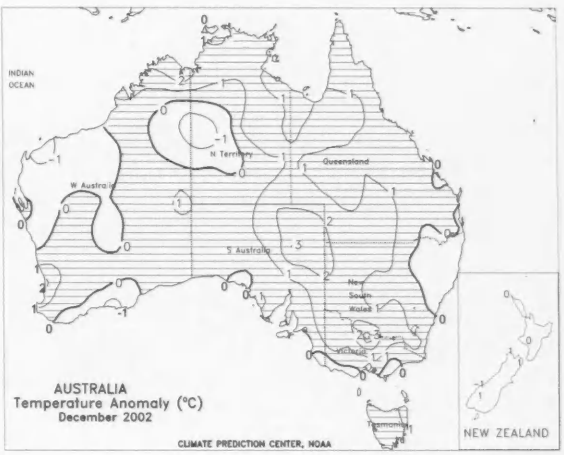
AUSTRALIA

In Queensland and northern New South Wales, unfavorably dry weather continued to maintain elevated crop water requirements, stressing dryland summer crops and increasing irrigation demands. Temperatures averaged 1 to 2 degrees C below normal, however, preventing crop water losses from reaching extreme levels. Farther south, hot, dry weather enveloped much of southern Australia, keeping a severe drought well entrenched in major winter grain-producing areas. Temperatures averaged 2 to 4 degrees C above normal in South Australia, Victoria, and southern New South Wales. In contrast, temperatures averaged 2 to 3 degrees C below normal in Western Australia. Although winter wheat and barley is typically grown from May to December, repeated, soaking rains would be welcomed over the next few months to rejuvenate drought-depleted moisture supplies and to condition topsoils for the next winter grain crop. In New Zealand, light showers (2-15 mm) caused brief fieldwork delays, while unseasonably cool weather (temperatures 1-3 degrees C below normal) slowed crop development. In December, showers in northern New South Wales and southern Queensland helped stabilize reservoir levels for irrigated cotton and sorghum. Mostly dry weather in central and southern New South Wales maintained severe drought. Elsewhere in Australia, near-normal rainfall provided some drought relief, while only temporarily delaying late winter grain harvesting.


INDIAN OCEAN
W Australia
N Territory
Queensland
S Australia
New South Wales
Victoria
Tasmania
NEW ZEALAND
AUSTRALIA
Total Precipitation (mm)
December 2002
CLIMATE PREDICTION CENTER, NOAA

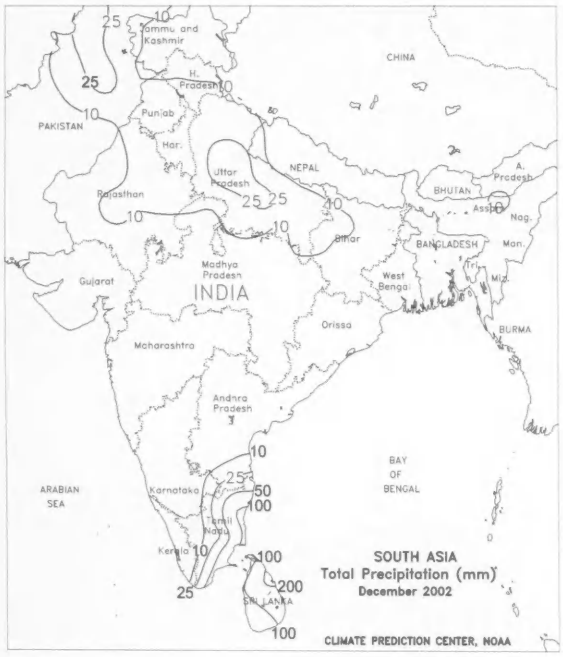

INDIAN OCEAN
W Australia
N Territory
Queensland
S Australia
New South Wales
Victoria
Tasmania
NEW ZEALAND
AUSTRALIA
Percent of Normal Precipitation
December 2002
CLIMATE PREDICTION CENTER, NOAA

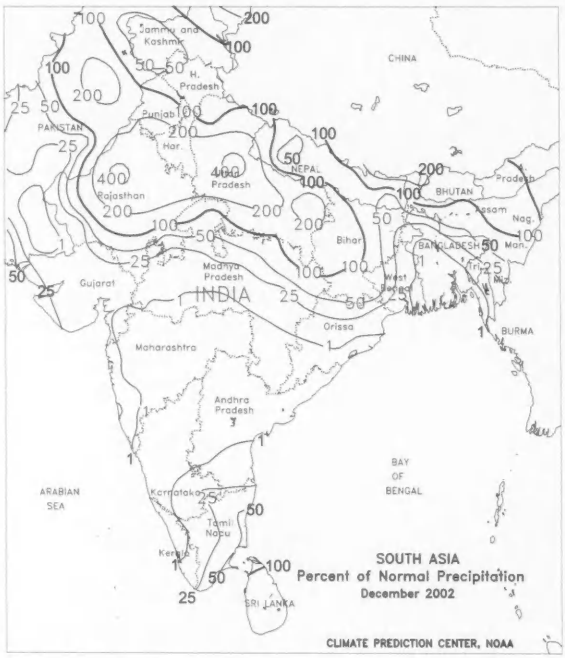

INDIAN OCEAN
W Australia
N Territory
Queensland
S Australia
New South Wales
Victoria
Tasmania
NEW ZEALAND
AUSTRALIA
Average Temperature (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA

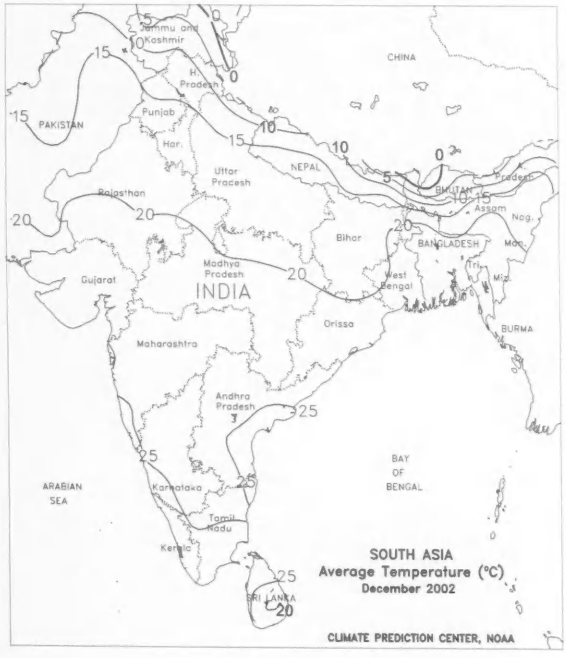

INDIAN OCEAN
W Australia
N Territory
Queensland
S Australia
New South Wales
Victoria
Tasmania
NEW ZEALAND
AUSTRALIA
Temperature Anomaly (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA

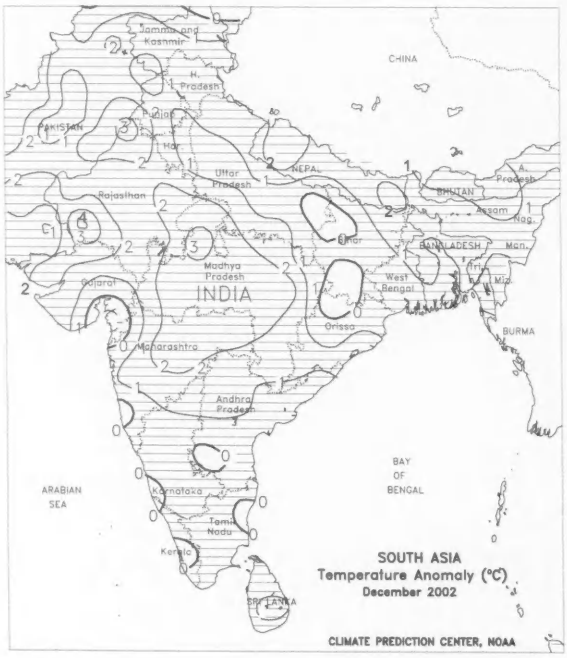
SOUTH ASIA

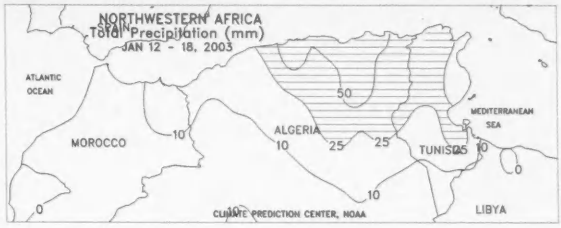
In December and early January, weather conditions favored cotton harvesting. Conditions also favored planting and early development of dry-season crops, including rice. Light showers in northern India aided winter grain and oilseed germination.





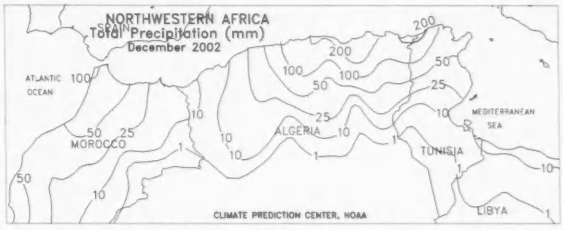


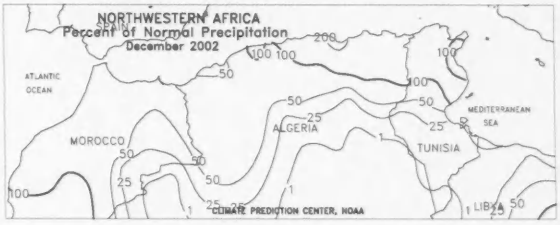


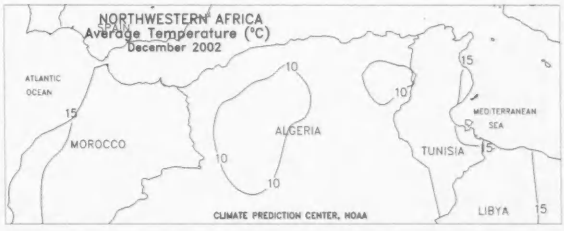


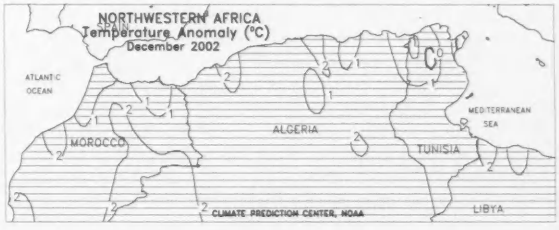
NORTHWESTERN AFRICA

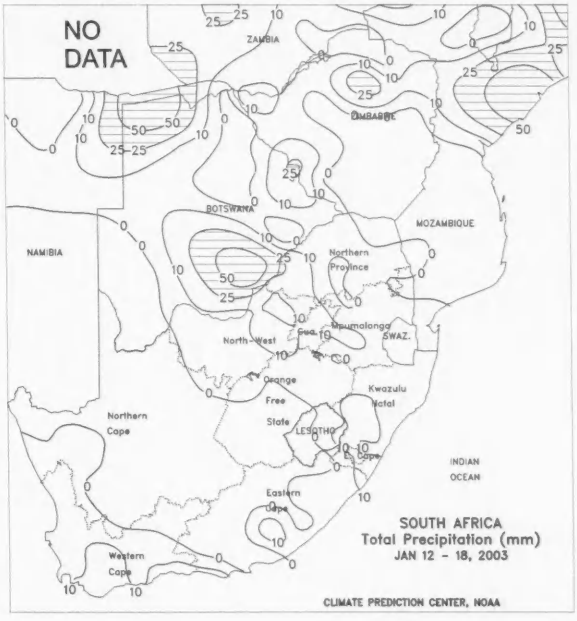
Midweek rain (15-80 mm or more) covered the major winter grain areas of Algeria and Tunisia, maintaining adequate to abundant moisture supplies for vegetative winter grains. In Morocco, only scattered light rain (1-14 mm) was reported, but moisture remained adequate for normal crop growth. In Algeria and Morocco, cool weather (minimum temperatures near or below freezing) and some snow were observed at higher elevations, slowing crop growth. Temperatures averaged 1 to 3 degrees C below normal across Morocco and Algeria and near normal across Tunisia. During December, below-normal rainfall improved conditions for winter grain planting after wet weather in November slowed fieldwork. In Algeria and Tunisia, near-to-above-normal rainfall maintained adequate moisture supplies for germinating to vegetative winter grains.





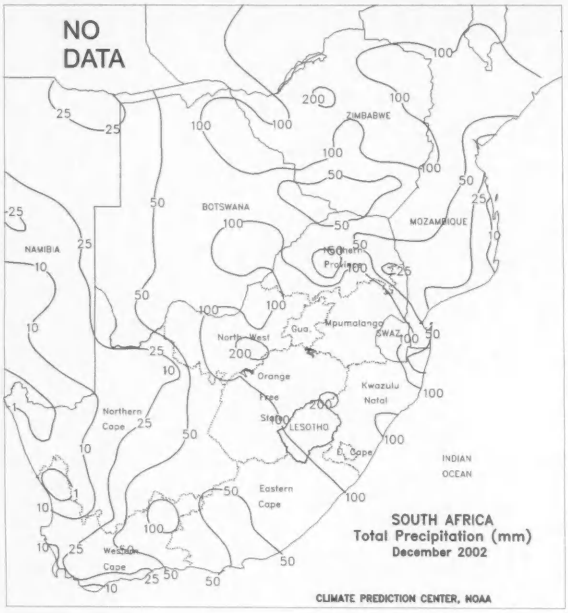






SOUTH AFRICA

Hot, mostly dry (generally less than 5 mm) weather followed the widespread rainfall of last week, enabling fieldwork to resume throughout the western and central corn belt. Although the hot weather (maximum temperatures in the low to middle 30s degrees C) increased evaporative losses, overall crop conditions remained good because frequent soaking rains since the beginning of December had greatly improved soil moisture. Light showers (2-25 mm) fell across the eastern corn belt and coastal sugarcane areas of KwaZulu Natal and Eastern Cape, causing only brief fieldwork delays. Farther south, scattered showers (2-26 mm) in Western Cape maintained moisture supplies for orchards and vineyards. Temperatures across the country averaged about 0 to 2 degrees C above normal, accelerating crop development. In December, much-needed rain fell in the corn belt, boosting topsoil moisture for summer crop development and improving crop conditions.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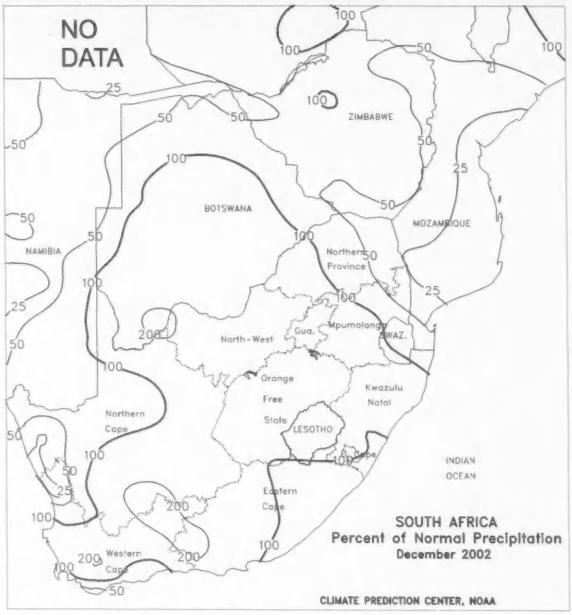
ZIMBABWE
BOTSWANA
MOZAMBIQUE
NAMIBIA
Northern Province
North-West
Gua.
Mpumalanga
SWAZ.
Orange Free State
Kwazulu Natal
LESOTHO
Northern Cape
E. Cape
Eastern Cape
Western Cape
INDIAN OCEAN
SOUTH AFRICA
Total Precipitation (mm)
December 2002
CLIMATE PREDICTION CENTER, NOAA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MOZAMBIQUE
NAMIBIA
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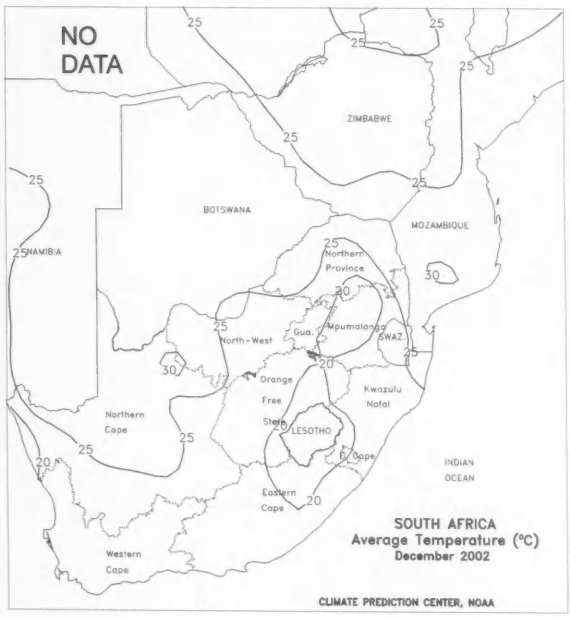
North-West
Gua.
Mpumalanga
SWAZ.
Orange Free State
Kwazulu Natal
LESOTHO
Northern Cape
E. Cape
Eastern Cape
Western Cape
INDIAN OCEAN
SOUTH AFRICA
Percent of Normal Precipitation
December 2002
CLIMATE PREDICTION CENTER, NOAA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NAMIBIA
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Mpumalanga
SWAZ.
Orange Free State
Kwazulu Natal
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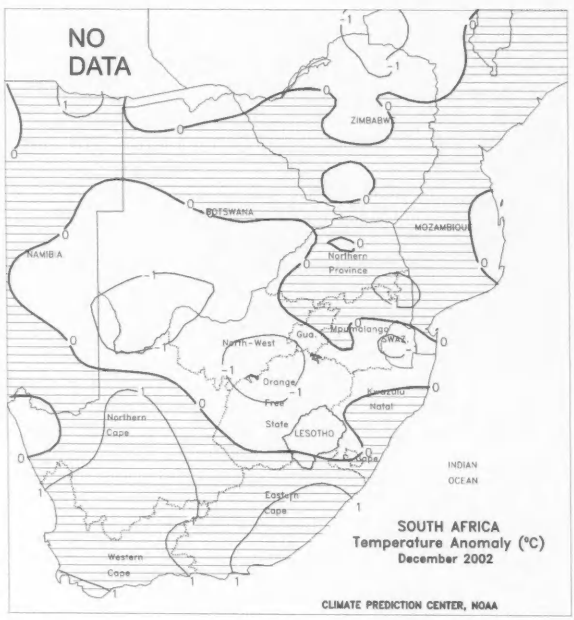
Eastern Cape
Western Cape
INDIAN OCEAN
SOUTH AFRICA
Average Temperature (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA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Northern Province
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Mpumalanga
SWAZ.
Orange Free State
Kwazulu Natal
LESOTHO
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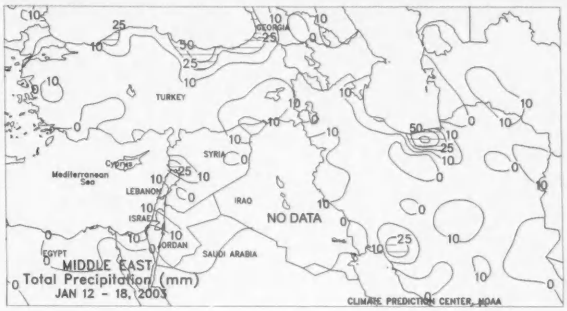
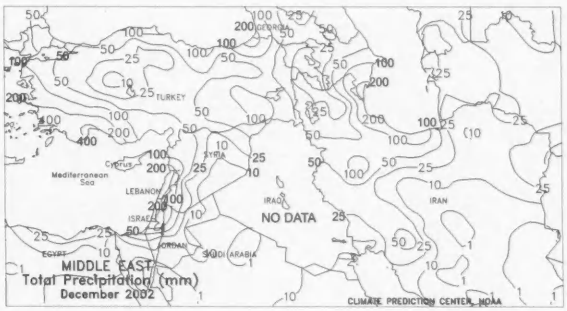
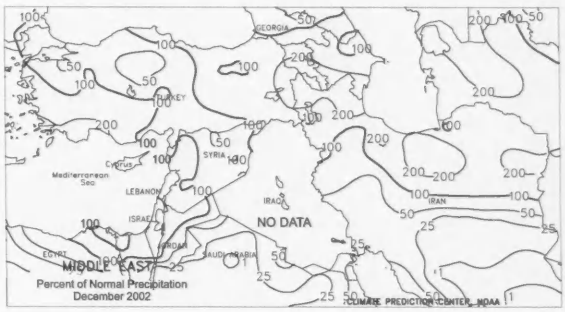
E. Cape
Eastern Cape
Western Cape
INDIAN OCEAN
SOUTH AFRICA
Temperature Anomaly (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA

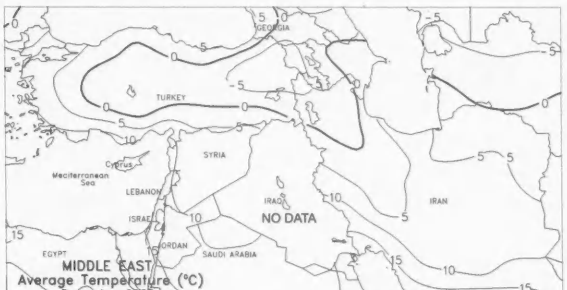


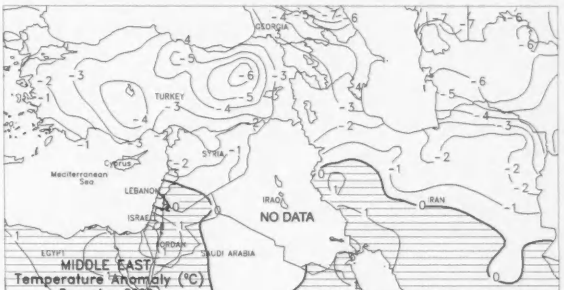
MIDDLE EAST

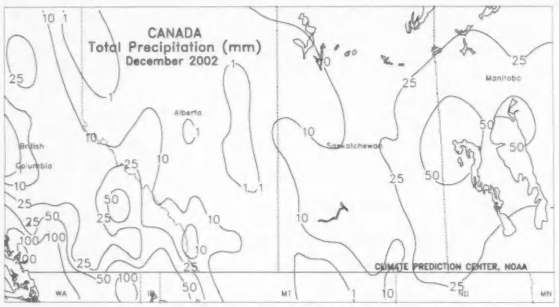
Seasonably cold weather kept winter grains dormant across Turkey and northern Iran. The weather turned progressively colder across the region. In northwestern Iran, bitterly cold weather was reported on January 18 (minimum temperatures -19 to -14 degrees C), stressing winter crops especially after the previous week's mild weather. Also, the cold weather created the potential for some freeze damage to winter crops in areas where snow cover was patchy or nonexistent. In Turkey, minimum temperatures remained above -7 degrees C, keeping winter crops dormant, but causing no damage. Despite the colder weather, temperatures averaged 2 to 6 degrees C above normal, mainly due to the mild weather early in the week. Light precipitation (3-12 mm of water equivalent) fell across Turkey and northern Iran, with snow cover increasing later in the week. Heavier rain (15-50 mm) fell across the northern Black Sea coast of Turkey. Scattered showers (10-50 mm) fell across the Mediterranean coast from Syria to Israel, and light rain (3-10 mm) was reported in Jordan and eastern Syria. Based on reports from neighboring areas of Turkey and Iran, light to moderate precipitation (snow in the higher elevations) likely fell across northern Iraq. During December, near- to above-normal precipitation increased irrigation supplies across Turkey, northern Iran, and the Middle East. In northern Iran and central Turkey, snow cover protected dormant winter grains from bitterly cold weather.

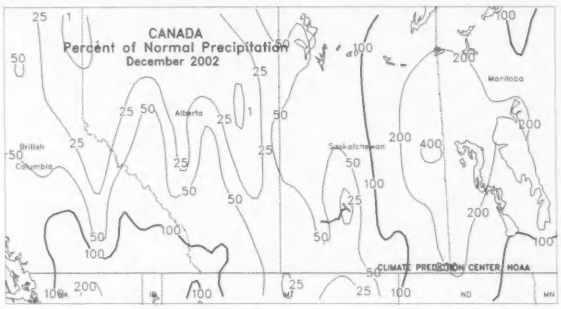


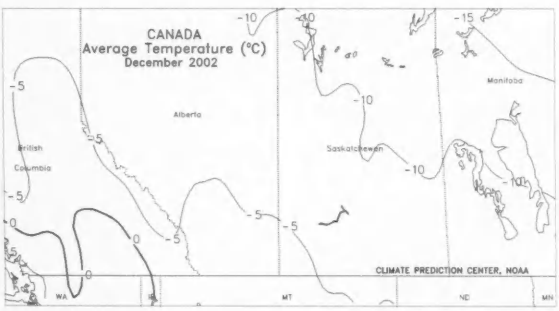


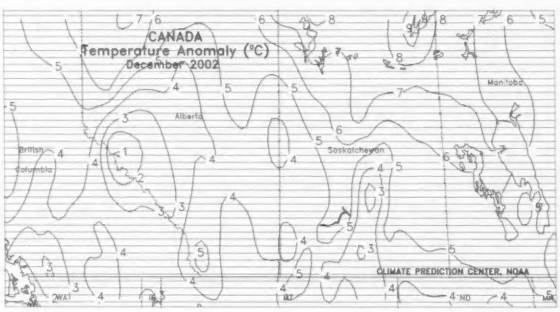




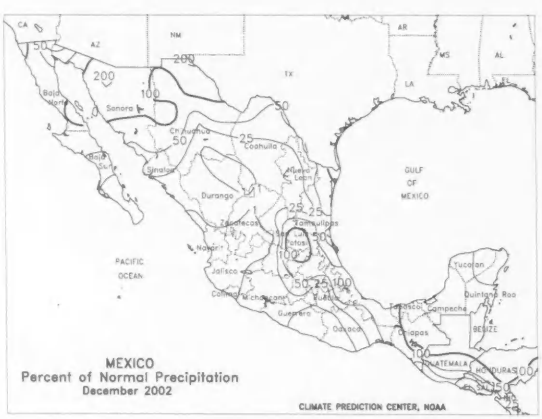

CANADA
Total Precipitation (mm)
December 2002
CLIMATE PREDICTION CENTER, NOAA

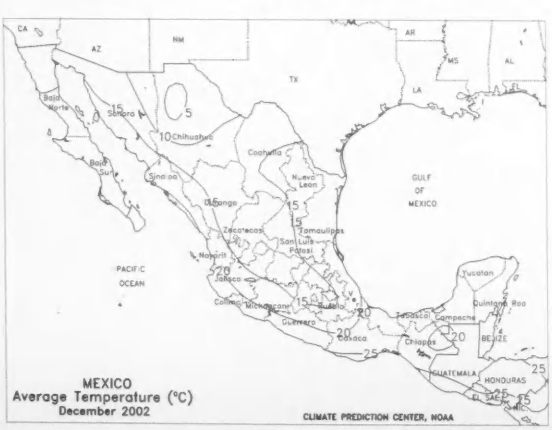

CANADA
Percent of Normal Precipitation
December 2002
CLIMATE PREDICTION CENTER, NOAA


CANADA
Average Temperature (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA


CANADA
Temperature Anomaly (°C)
December 2002
CLIMATE PREDICTION CENTER, NOAA

MEXICO
Total Precipitation (mm)
December 2002
CLIMATE PREDICTION CENTER, NOAA


MEXICO
Percent of Normal Precipitation
December 2002
CLIMATE PREDICTION CENTER, NOAA


MEXICO
Average Temperature (°C)
December 2002
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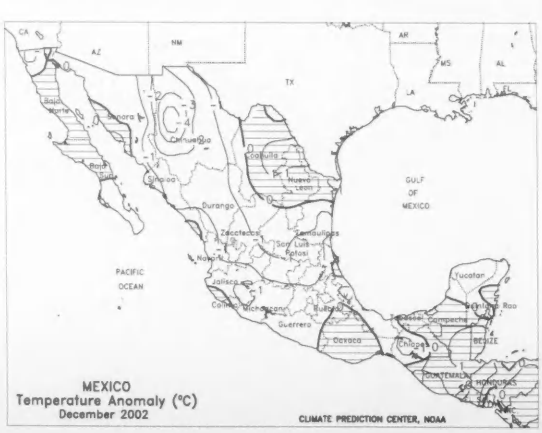
MEXICO
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December 2002
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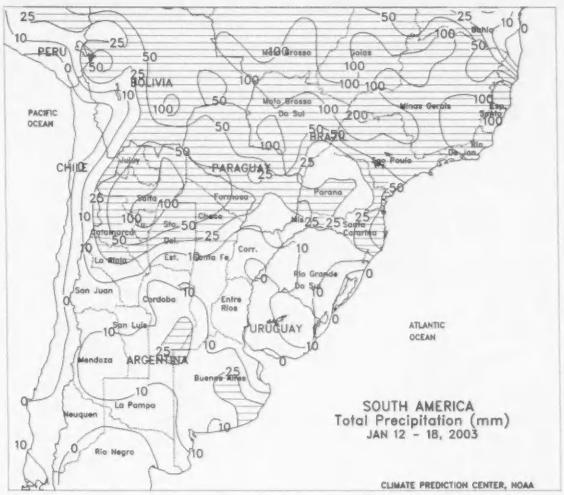
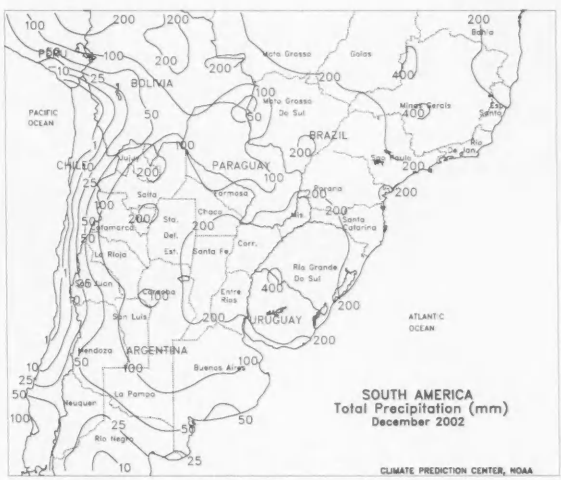
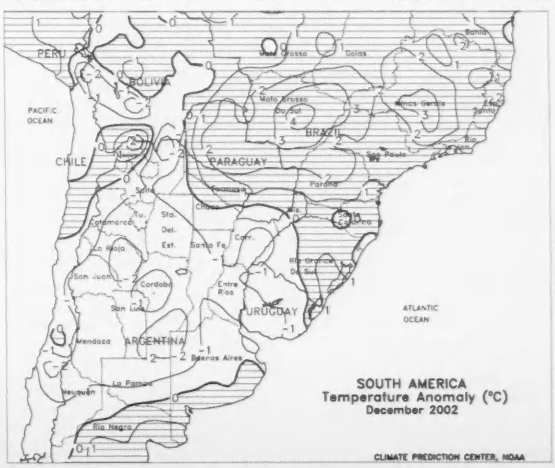


SOUTH AMERICA

In Argentina, scattered showers (10-25 mm or more) maintained generally favorable conditions for vegetative summer crops in the main growing areas (southern Santa Fe and Cordoba southward through Buenos Aires). Favorable dryness helped to alleviate excessive moisture in Santa Fe and Entre Rios, but farther north, locally heavy showers (25 mm or more) returned to outlying crop areas of Chaco and Formosa. Above-normal temperatures, with highs in the middle 30s degrees C, spurred crop growth while increasing crop moisture demands. In southern Brazil, scattered, mostly light showers (5-25 mm) and summer warmth spurred summer crop growth in Rio Grande do Sul, although southern agricultural districts needed additional rain following 3 weeks of below-normal rainfall. Locally heavy showers (greater than 100 mm) continued across Brazil's northern growing areas, maintaining abundant moisture levels for summer crop development. Temperatures averaged 1 to 2 degrees C above normal, with the hottest weather (highs exceeding 35 degrees C) confined to western growing areas of Mato Grosso and Mato Grosso do Sul. During December, frequent, occasionally heavy showers maintained abundant moisture reserves for summer crop development across Argentina and southern Brazil, but caused some disruptions in winter wheat harvesting. The wettest areas (rainfall exceeding 200 percent of normal) continued to extend from Santa Fe, Argentina, to Rio Grande do Sul, Brazil. In Brazil's northern growing areas (Mato Grosso eastward through Minas Gerais), the rainfall ended a protracted dry spell that had previously stressed emerging summer crops as well as coffee and citrus. Monthly temperatures continued to average above normal in Brazil's main agricultural areas and below normal in central and northern Argentina.





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